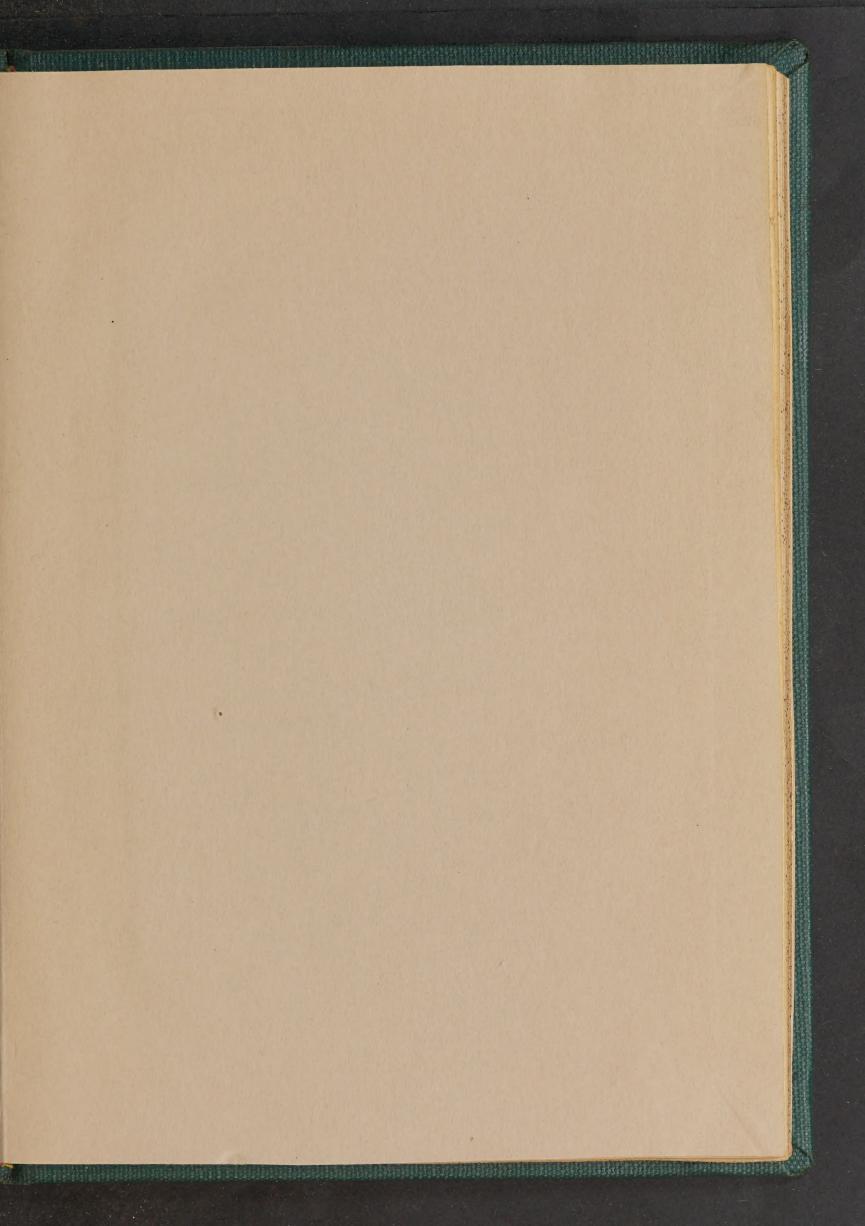
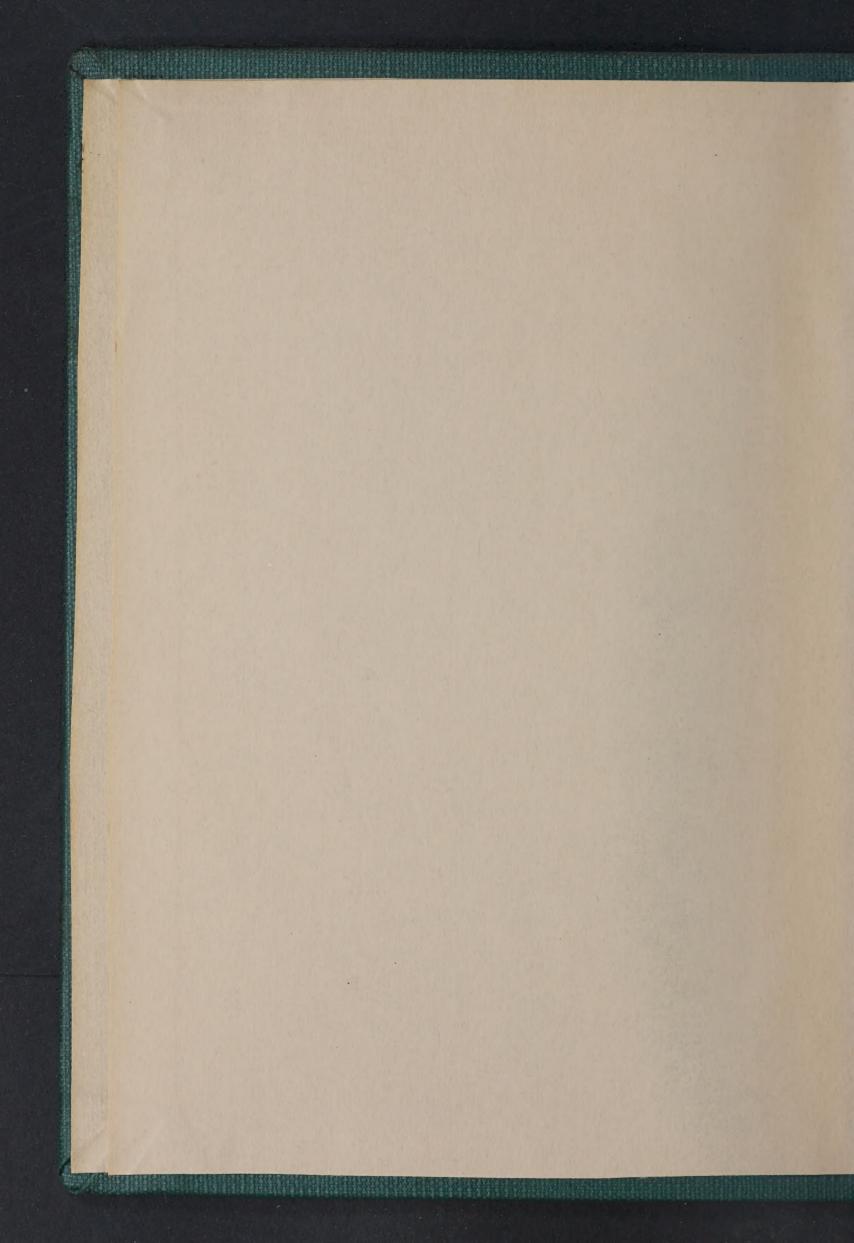
JOHNSON - MEMORIA CYCLOPEDIA 1846

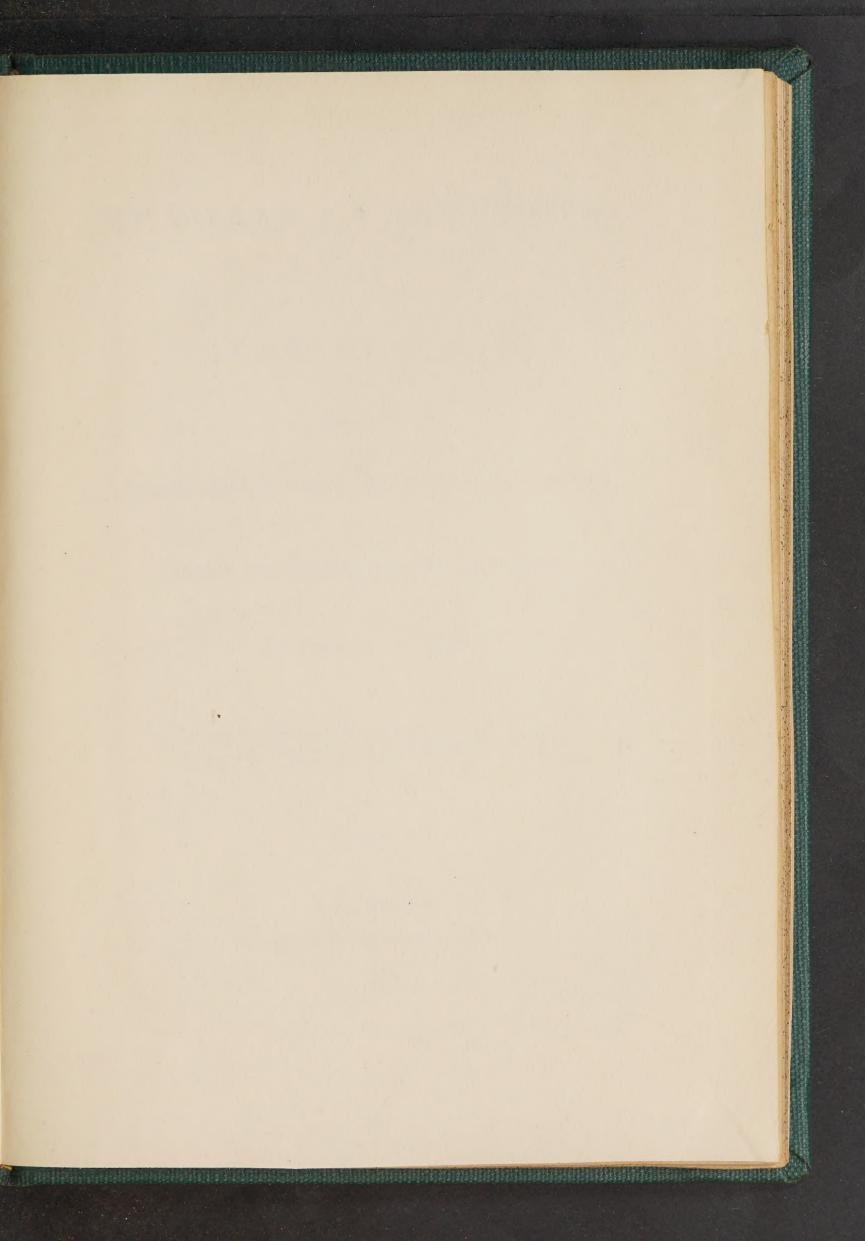


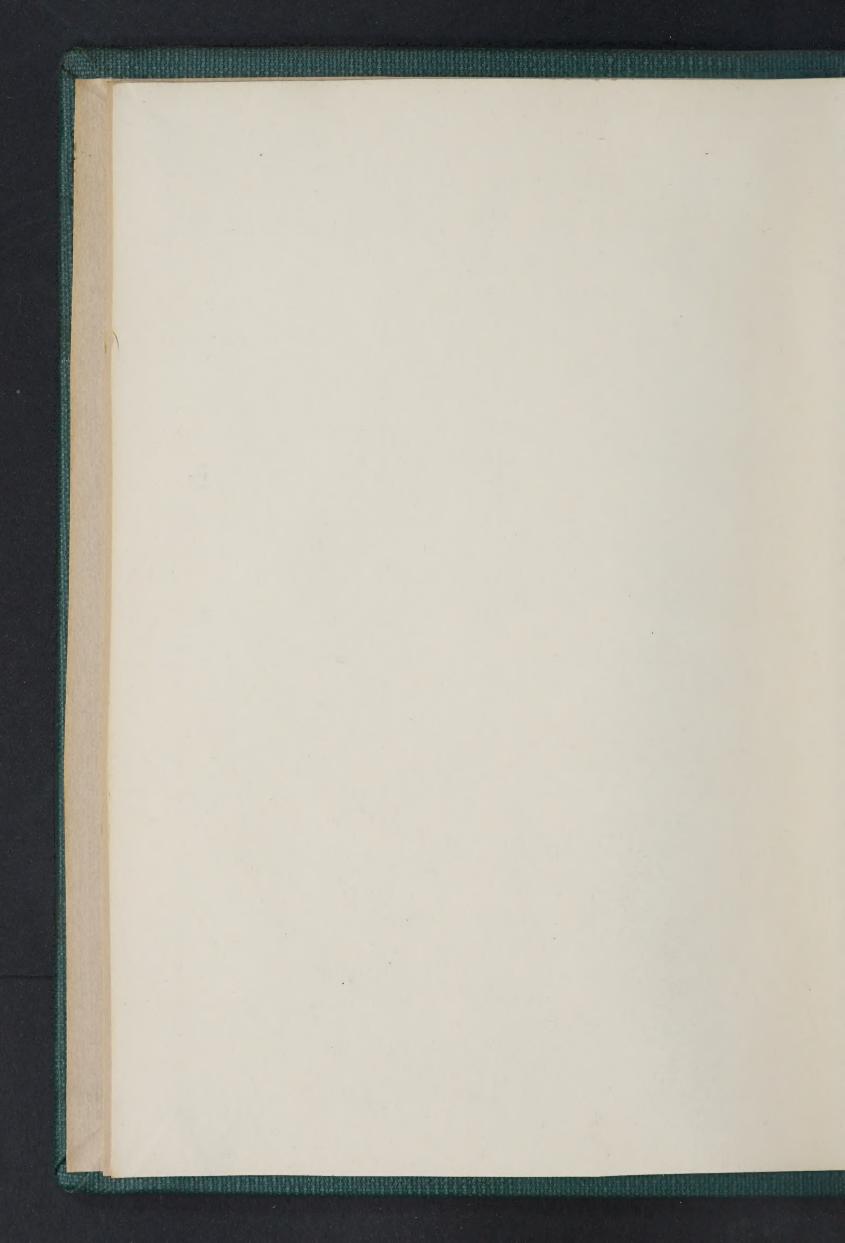












MEMORIA CYCLOPEDIA,

OR,

THE ART OF MEMORY,

APPLIED TO

TECHNICALITIES AND NUMBERS IN THE SCIENCES.

BASED ON THE ANALYSIS OF SOUNDS AND ARTICULATIONS.

BY LORENZO D. JOHNSON.

Memory is not wisdom; idiots can rote volumes;
Yet, what is wisdom without memory? a babe that is strangled in its birth,
The path of the swallow in the air, the path of the dolphin in the waters,
A cask running out, a bottomless chasm.

M. F. Tuffer.

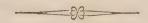
TAUNTON:
PUBLISHED BY SAMUEL O. DUNBAR.
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Entered according to act of Congress in the year one thousand eight hundred and

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E. ANTHONY, PRINTER, TAUNTON.

INTRODUCTION.



No GREATER evidence can be adduced in favor of the hypothesis, that the Memory can be made infinitely more available by attending to certain Rules, than the fact that it has been a subject of public interest, and has received the particular attention of the higher order of minds in almost every age of the world.

Herodotus, the father of history, informs us that "Those Egyptians who live in the cultivated parts of the country, are, of all I have seen, the most ingenious, being attentive to the improvement of the memory, beyond all the rest of mankind." The hieroglyphics of Egypt are the symbols or representatives to the eye of by-gone scenes, and was doubtless the earliest system of artificial Memory. (Mnemonics.)

Simonides is the reputed father of that system of rules which became a favorite study with both Greeks and Romans. Simonides was a Grecian Poet of considerable celebrity. He died 467 before Christ, aged 87 years.

Herodotus was born 484 years before Christ, making him 27 years old when Simonides died.

Such men as Aristotle, Plato, Cicero, Quintilian and Seneca, among the Ancients, acknowledge their indebtedness to Mnemonic Rules, for the feats of Memory which they performed. And in Modern times, Lenande, the French astronomer, Hume, Bacon, Locke, and Addison, and we may add Robert Hall, whose opposition was completely overcome by Feinaigle. In like manner was Dr. Priestly made an advocate of Dr. Gray's system, as the following extract from him will show:

"It is so easily learned, and may be of so much use in recollecting dates, and any other fact connected with figures that I should think all persons of a liberal education, inexcusable, who will not take the small pains that is necessary to make themselves masters of it; or who think any thing unworthy of their notice which is so useful and convenient."*

The Germans are the only modern nation who have made the art of Memory a primary study — and for its advantages in schools, the educated Germans give ample demonstration. In Germany they have as many editions, and "improved plans," of aiding the Memory, as we have of "improved" and "simplified" grammars in America.

Should the wisdom of our own age and nation pronounce these works unphilosophical or defective, yet we think, taking into consideration all the attention that this subject has received in different ages and nations, it would be precipitant and uncandid to pronounce it useless; especially as many do, before giving it a fair examination.

Dr. Richard Gray, Rector of Hinton, Devonshire, England, published a work on artificial Memory in 1730; and so great was the demand for it, that six editions of it were soon exhausted. But had not a fragment of it been preserved to us in Whelpley's "Compend of Universal History," very few persons would have heard of it in this country.

Gray, like the merchants from time immemorial, made letters stand for figures, by which they make their private marks on goods; so that for the date of the universal deluge, Dr. Gray would write *Del*, to bring to mind the word deluge, and then finish with such letters as stood for the figures in the date. Thus, according to his system, Del-Kiod gave 2348. This made no word, which represents to the mind an IDEA.

The letters when put together made imaginary words which, easy as Dr. Priestly said it was to master it, had to be worn into the mind by numerous repetitions before they could be retained. It was like the word which Dr. Watts made from the initial letters, indicating the several colors of the rainbow; for violet, indigo, blue, green, yellow, orange, red, thus, Vibgyor. The word means nothing, and is therefore of difficult recollection. This no doubt is the reason why Dr. Gray's system fell into disuse.

^{*} Edinburgh Encyclopedia.

But let the consonants, or articulations only, stand for figures, and forming only the frame-work of words, the vowel sounds can be brought in to make a word which shall have a meaning, or which is the representation of an idea, and then the word is retained with comparative ease, in consequence of the *idea* it conveys to the mind.

Let us take, for example, the call of Abraham; if we wish to remember the date of this event; in figures it stands thus, 1921 B. C. It furnishes, according to the Key in this work, the following letters, D p n d. These being consonants only, the vowels can be introduced and make the word Depend. This word being made the member of a sentence, it will read thus: On the call of Abraham much was made to Depend.

It is by establishing a relation between the event, and the indicating, or date words, that saves them from an isolated position, and makes them the natural member of a sentence. This enables us to remember the date words with no more labor of mind or memory than to remember the event; for if the relation be well established, the event becomes a faithful prompter, giving the memory all the momentum it needs, to send it, as on an inclined plane, from the Event to the *Date* word.

The offering up of Isaac in sacrifice is an event; the date being 1871 B. C., furnishes the indicating words, Dove to God. Now establish a relation between the event and the date words, and it will take but one effort of the mind to hold them both, thus: The offering up of Isaac in sacrifice was offering more than a turtle Dove to God.

Overlooked by Dr. Gray, this discovery was left for the Germans. M. Gregor Von Feinagle, from Baden, first introduced it into France and England about the year 1812; since which time other improvements have been made on Feinagle's system, especially by Amie Paris, of France, and Prof. F. F. Gouraud, who first taught in this country.

We think that the "Fundamental Basis," which Prof. Gouraud has introduced among us, is a decided improvement on Feinagle's. But Gouraud's system requires improvement. He admits ad Libitum rules; and assigns the nasal articulation, ing, in Sing, Dancing, &c., to 7. We assign it to 2, for the reason, that it should make a pair with the nasal N, as heard in sin. By dropping the sit will be in, ing. N is always suppressed before a hard in Gouraud's rules, so

that in the words hunger, longer, the N is made to have no value. We give both letters a numerical value, the N 2, G 7, for the same reason that we would give N and K a value in the word Ink.

In all words ending with tion, cion, sion, (shun), in Gouraud's system, it is left "optional" with the learner to make it 62, or 6, by dropping the final n as his fancy shall incline him. Thus giving two pupils a chance to employ two different letters for the same figure, or for one to leave a letter without a value, and the other to give it a value. We give to shun uniformly 62.

Mr. Gouraud gives cumbrous formulas, to be committed by the pupil. We give none; leaving the pupil to form his own relations between facts and dates, according to his own sense of propriety. Thus giving the pupil some useful exercise for his rules in syntax and composition, which also gives exercise to thought and imagination as well as memory.

The great time saving advantage of our mode of committing the Sovereigns of England can be seen by those only who understand both systems. They can see in what particulars we have disincumbered and simplified the whole process.

We have received many useful hints from Phonography, as taught by Andrews & Boyle, of Boston. It will be seen by those who understand that system, that the classification of our articulations is in exact accordance with the truly philosophical classification of "consonant sounds," in phonography.

One great reason why the art of Memory has not been received into our public schools, and made a text book in primary instruction long ere this time, is not for want of merit, but because those who have succeeded in mastering any available rules, to aid the memory, have hitherto preferred to keep the matter in a form, which would answer no purpose as a school book. They have passed through the community, addressing the people's *Marvellousness*, and charging an exorbitant price for what they would induce the people to *expect*, rather than what would be ultimately realized, and prejudicing the public mind against the whole matter.

It is against such professors and professions that the Hon. Horace Mann, Secretary of the Massachusetts Board of Education, makes the

following thrust in his last excellent report. Alluding to aids to the Memory, which are made dependent alone on abstractions, taken out of their connection, he says: "They are like the tricks and professions of the professors of Mnemonics, who in ten lessons will teach their classes the greatest quantity of things, which, however, are like records made upon the beach, where the tide has receded, to be washed away by its refluent wave." But truthful as this hit may be with reference to the pedlars of Mnemonic rules, it falls powerless upon a system to aid the memory of technicalities, as developed in this work.

From the time that the ancients found some slight analogy to objects of sense in the forms of the constellations of the heavens, or when our Savior made the "serpent," to impersonate wisdom, or, Dr. Watts, to remember names by similarities of sound, all concur in justifying some art of memorising technicalities.

But in preparing this work for the press, it has been our object to adapt the illustrations to the comprehension of the larger pupils at least in "common schools," with the hope to see it adopted as a text book, and thereby constitute every school teacher in the land a "professor" of all the art of Memory which can be made useful to our youth; thus contributing our mite in subduing difficulties, and facilitating the more rapid acquisition of useful knowledge. There are lessons in this book in statistical geography especially, that by the aid of this system, the pupil can acquire in an hour, which, without it, he would not acquire in six hours. Take the square miles of the civil divisions of the globe, as an instance; and the acquisition of all the other lessons are aided in the same proportion. If time be valuable, this fact commends the subject to the serious attention of all who wish to make the hours which children spend in school the most available.

Should it be asked, does this subject really improve the memory? or is it an arrangement by which we lessen the demand for memory? The true answer is, it does both. In substituting words for numbers an immense amount of labor is saved to the memory, and consequently of time also. But it will be impossible for the pupil to run through the System in the several sciences to which it is applied, without giving vigorous exercise and additional strength to the power of recollection.

But it is to the Second Part of this work that we would chiefly refer, where the system is applicable to *Topics* in prose and poetry, as being peculiarly calculated to strengthen all our retentive faculties. The Second Part is based chiefly on those laws of the mind to which Phrenologists give the names of *Locality*, and *Comparison*, the last of which we shall call Association.

Locality is that law of the mind which takes cognizance of place, and which assigns almost every thing we hear of to some place. Association is that law of the mind, which almost involuntarily sees some analogy, and establishes relations between dissimilar things. While Locality enables us to remember places, Association enables us to remember what was seen, said, or done, in those places.

One of our own poets has beautifully alluded to the *impressiveness* of place in the well known lines:

"How dear to this heart are the scenes of my childhood, When fond recollection presents them to view; The orchard, the meadow, the deep-tangled wildwood, And all the loved scenes which my infancy knew. The wide-spreading pond, and the mill that stood by it, The bridge, and the rock, where the cataract fell; The cot of my father, the dairy-house nigh it, And e'en the rude bucket which hung in the well."

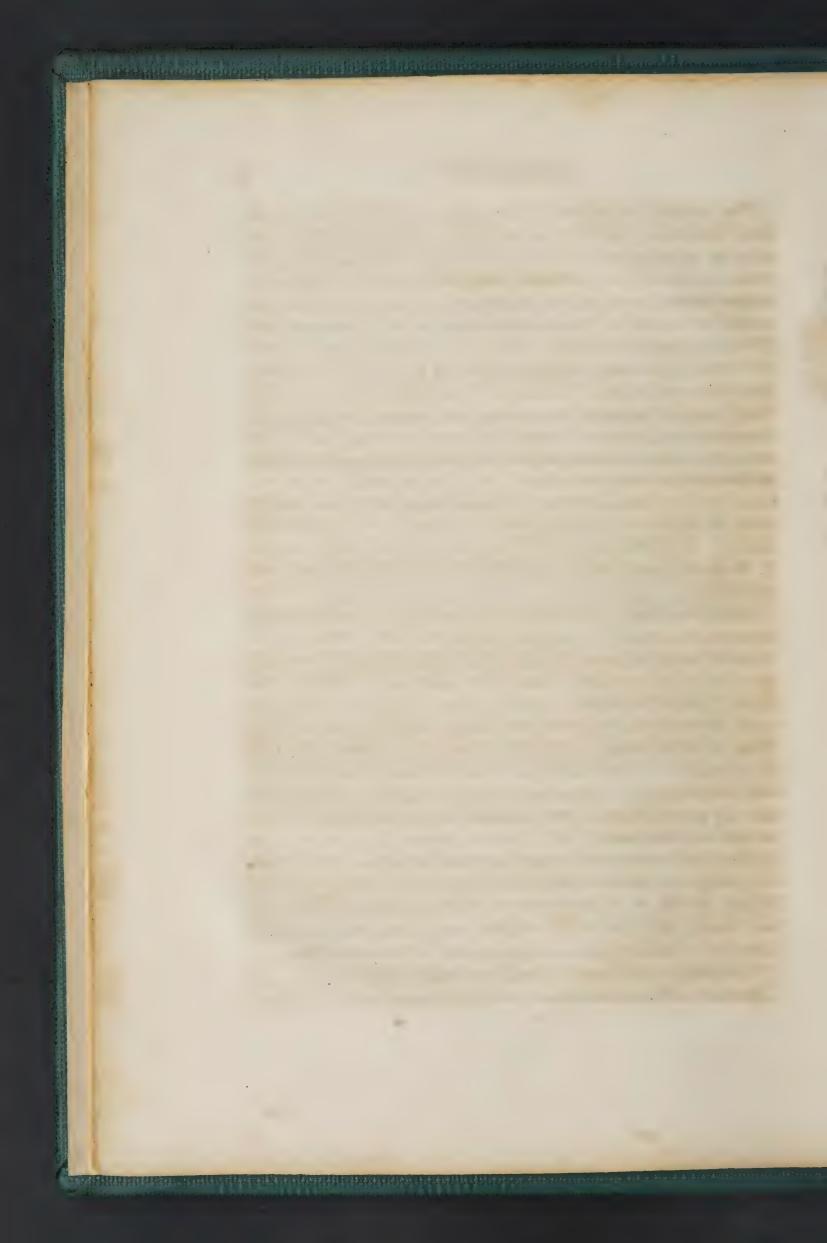
Marden, a writer on the art of Memory, has the following on this point: "Should an old man wish to restore to his mind the boyish transactions of his youth, now fast departing from his memory, a walk on the green, where he had formerly gamboled, the blithest of the blithe, would recall to his mind the companions of his sports, with their features and characters, in a more forcible manner, and portray them upon his imagination in more lively colors than any other mode he could have recourse to." In the rooms, places, and Symbols of the Second Part, the learner will find a gymnasium for training his mental faculties, the unavoidable result of which will be, to give his intellect a versatile and elastic tone, and give strength and vividness to the impression made on the retentive faculties, which indeed forms the basis to every kind of memory, whether it be of size, weight, form, color, tune, calculation, comparison, or eventuality.

The peculiar adaptation of this system to aid in studying the Holy Scriptures, should not be overlooked. While the Bible contains the most ancient records of history, and is the only book upon which we can rely for more than two thousand years for the world's earliest history, yet it is very unfortunately arranged for study, the events and records not being arranged in the order of their occurrence. (The arrangement of "books," contained in the Bible were not made by divine appointment, but which does not in the least invalidate their divine authenticity.) Hence it is that the historical parts of the Bible, exist in the minds of so many who deservedly reverence the Scriptures, as a jumble of historical materials in a chaotic mass. But with a very little attention to the rules of this system, the student of theology can make a "digest" of all the important events contained in the Bible, and have the date of every event, with relative order, transferred to his mind, which will enable him "to see all things clearly." In conclusion, we will give the remarks on this point, of T. Walworth, whose labors have blessed many a New England Sabbath School:

"Scripture history is Scripture itself, teaching the knowledge and enforcing the practice of its own divine precepts by examples. It therefore forms the best introduction to scripture morality and religion; and this, no doubt, is one of the purposes for which it was given. One of the inspired penmen of the sacred volume, after adverting to the various parts of the history which it contains, says: 'Now all these things happened unto them for examples; and they are written for our admonition, on whom the ends of the world are come.'—1 Cor. x. 11. This passage alone, if rightly considered, will show the use of scripture history, establish its importance, and secure its place in education; I shall therefore dismiss this topic, with the assertion, that whoever can attentively read the chapter from which the passage is quoted; or the 77th, 78th, 105th, 106th, and 107th Psalms, and not be deeply impressed with the importance of scripture history, particularly with reference to education, must have very contracted views of religion, and the object of religious adoration.

"Geography and Chronology are the eyes of History."

Rochester, Mass., 1846.



PART FIRST.

NUMERICAL KEY.

GIVING TO ARTICULATIONS A NUMERICAL VALUE.

- 1. The vowels and consonants of the Alphabet are divided into Sounds and Articulations.
- 2. The pure Sounds are those which are uttered by the unobstructed breath, as it proceeds *vocalized* from the lungs, and are therefore called vowels. Such are A, E, I, O, U.
- 3. W and Y are added to the pure sounds, because they are U and I repeated. H is also added to the sounds, because it is a mere breathing, and has its origin in the lungs, with the sounds, which the learner will see, if he will speak the words house or home, first leaving off the h and then putting it on, and speak it again.
- 4. These eight letters, A, E, I, O, U, W, Y, and H, have no numerical value; excepting when H forms part of an articulation, as heard in this, shop, chess.
- 5. Articulations, in some cases, embrace more than single consonants, and are represented by Th, as heard in thigh, thy, and theme, them, also by Ch, as heard in cheese, sh, in sheep, and Zh, as heard in measure, Azure.
- 6. The following classification of the Articulations are made by a uniform termination of e. F is spoken as heard in fear, M as in mete, S as in sea, K as in key.
 - 7. CLASSIFICATION AND NUMERICAL VALUE OF THE ARTICULATIONS.
 - 1 = Te, De, The as heard in theme, them, thigh, thy, tie, die.
 - 2 = Ne, Ng, or in, ing as heard in sin, sing, near.
 - 3 = Me mete, mite, mote, mate.
 - 4 = Re r ear, roar.
 - 5 = Le letter, later, light, lat, lilly.
 - 6 = Che, Je, She, Zhe cheese, gem, sheep, azure.
 - Note. J and soft G are the same in articulation and value.

7 = Ke, Que, Ghe — hey, king, queen, geese, ghost, cat, cot, cut. Note.—C hard is the same in articulation with K, and has the same value.

8 = Fe, Ve - fear, veal, pheasant, physic.

9 = Pe, Be - pea, bee.

0 = Se, Ze, and soft C — sea, zeal, ceiling, cease.

8. In sing, sang, sung, singer, long, the G has no value; but in hunger, longer, congress, the G is articulated, and has the value of G hard, as heard in go, egg.

9. The position of the articulating organs remain unchanged while uttering all that is assigned to each numeral, or figure, only so far as is necessary to utter those which are in pairs, first a light, and then a heavy sound. Thus, when we say P, what other letter can we speak, and not change the organs of speech? Answer, B. So with the

others, as will be seen by carefully repeating them.

Some of the letters which stand for the figures will be best remembered by noticing the following analogies. Note the similarity of beginning to speak 0 (cypher) and c soft, and se; also 0 (zero) ze; figure 1 is made with one downward stroke of the pen, so is i in common hand writing; two, in the Roman numerals, is made with two strokes, so is n; and three strokes for three, so with m, and L for s, not s0, &c.

- 10. C before a, o, and u, is hard, and articulated like K; also Ch, in chorus, character, and is = 7.
- 11. X is equal to two articulations, as heard in axe, ox = aks, oks, and therefore is 70; or 76, as heard in luxury = lukshury.
- 12. Double letters, when pronounced by one articulation, are but one in value, as heard in egg, letter, pepper; but when separated by a soft or a hard sound, or by a sylibic division, so as to give each letter a distinct articulation, then each letter has its numerical value; thus, accept, 7091; suggest, 07601; book-keeper, &c.
- 13. Silent letters have no value, and no letter is translated into figures, unless articulated—dutch, 16; palm, 93; lamb, 53.
 - 14. The apostrophic S is not translated, thus, man's duty 3601.,
- 15. S in the third person singular of verbs, is not translated, thus, the bird flies, the boy runs. The same rule applies to the three words, is, was, and has, from the verb to be.
- 16. Connecting words are not translated. Such are a, an, the, for, of, from, between, through, up, but, &c.

Note. — The learner should carefully observe the consonant sounds or articulations, in the following series of words, for the purpose of noticing that no letter is made to stand for a figure, unless it is articulated, and that the numerical value is attached to the articulation rather than to the letters; thus, in the word tough, we have te-fe, 18; in physic, fe-ze-ce, 807; and in phthisic, te-ze-ce, 107.

FIRST SERIES.

17. Say, see, sigh, 0.
Tie, die, thy, thigh, though, 1.
Nay, know, now, nigh, 2.
May, mow, my, 3.
Ray, raw, wry, 4.
Lay, lie, 5.
Cheese, Jew, shoe, Asia, 6.
Key, quay, go, 7.
Foe, vow, fee, 8.
Pie, bay, happy, 9.

SECOND SERIES.

Size, 00.
Tight, tidy, taught, thought, 11.
Noon, noun, known, 22.
Mum, Maim, 33.
Rare, rear, roar, 44.
Lily, lowly, loyal, 55.
Judge, jujube, 66.
Keg, Cook, quick, 77.
Five, fife, fief, 88.
Pipe, baby, pappy, 99.

THIRD SERIES.

- 18. Sing, 02; sex, 070; tax, 170; oxygen, 7062; luxury, 5764; example, 70395; suggest, 07601; accept, 7091; success, 0700; nation, 262; amplify, 3958; vexation, 87062; taxation, 17062; ocean, (shene,) 62; azure, 64; measure, 364; patience, 1620; satiate, 062, ratio, 46; book-keeper, 97794; character, 74714; chorus, 740; mission, 362; missionary, 3624; pepper, 994; accident, 70121; wedge, 6, edge, 6, Dutch, 16; singer, 024; longer, 5274; sung, 02; hunger, 274; Peter's cane, 91472; the bird flies, 94185; man runs, 3242; God is wise, 710; man was good, 3271; but man has sinned, 32021; from Boston to New York, 9012247.
- 19. Words are the original signs of ideas, and serve as the conductors of ideas to our retentive faculties, which can be made with an indellible impression, while figures are arbitrary signs of signs, and therefore are of very difficult recollection, and furnishes the very good reason why words can be remembered so much better than figures. The Articulations only having a numerical value, may be compared to the frame work, or skeleton, and the vowels, or Sounds, to the covering, or ligaments. The application of the system to history, mathematical and statistical geography will be illustrated in the appropriate chapters.

ONE THOUSAND HISTORICAL EVENTS.

WITH THE DATES.

NOTE.—It will be seen that these Events are like so many mile-stones, set up in the order of their occurrence, along the stream of time, forming the frame-work of the world's history, The pupil should fill up the spaces between, by his future reading. He will find the Bible, and some good compend of Universal and Ecclesiastical History, necessary companions for this purpose.

DIRECTIONS TO THE LEARNER.

In committing these events, the learner should fill up the blanks, so as to make the adjective and indicating words, the members of a complete sentence, which can be read with one breath, if possible; Thus making a useful exercise in short specimens of composition. If the sentence be made to read smoothly, and justified by the student's own sense of propriety, he will find it requiring no more effort of mind to retain the *indicating words*, and therefore the *date*, than to remember the event only; thus saving all the time required to wear dates, in figures, into the mind.

EXAMPLES.

| 1 At the Creation of the World -Arose the S. | RE, 4004 |
|---|----------------------------------|
| 2 The birth of Cain gave to his parents more jo | than — New Roses in May, 4003 |
| 3 Cain killed Abel which was like a—MoDern | Move for cash, 3876 |
| 4 After the Death of Adam, the people put on a | -Rich Mask of War, 3074 |
| 5 The translation of Enoch, a. 365, was deemed | a—Long Mistake. 3017 |
| 6 Noah began to build the Ark, where he receive | the—CHief Honor of a chief, 2468 |
| 7 Methuseleh died at 969 years of age, by a— | Curious Enemy, though RIFE, 2348 |
| 8 The Universal Deluge was a—Fine NAME by | t ROUGH, 2348 |

In memorising these events, the learner will see that he is to place the indicating words in the same relation to the adjective, as the symbol* was from which the adjective was taken, so as to make the indicating words come next to the adjective, or numerical order word; which he will do soonest by repeating it over to himself with fixed attention.

DIVISIONS OF HISTORY.

It will aid the learner as he passes through the one thousand events, to make the following classification of history:

1st. General and particular. 2d. Sacred and profane. 2d. Ancient and modern. 4th. Civil and ecclesiastical. 5th. Twenty grand divisions as contained in the following series:

^{*}See the Symbols in the Second Part.

FIRST SERIES.

FIRST GRAND DIVISION OF TIME.

CHARACTERISTIC OF THE AGE. ANTEDELUVIAN AGE.

FROM THE CREATION TO THE DELUGE.—Dodge a Ledge, 1656.

| | | | 0 | 0 ' | |
|----|-------------------------------|-----|-------------|---------------|------|
| 1 | Creation of the World. | | . Are | ose the Sire, | 4004 |
| | Birth of Cain. | . " | New Ro | SES in MAY, | 4003 |
| 6 | Cain killed Abel. | | Modern Mo | VE for CASH, | 3876 |
| 4 | Death of Adam. | | Rich N | IASK of WAR, | 3074 |
| P. | Translation of Enoch, a. 365. | | Lo | ng Mistake, | 3017 |
| | Noah began to build the Ark. | | CHief Hono | R of a CHIEF, | 2468 |
| 7 | Death of Methuselah, a. 969. | Cur | rious Enemy | though RIFE, | 2348 |
| 8 | Universal Deluge, | | Fine NAM | E but BOUGH. | 2348 |

SECOND GRAND DIVISION OF TIME.

From the Deluge to the call of Abraham.

CONFUSION OF LANGUAGES.—Harangue go, 427.

| 9 | First Vineyard, planted by Noah. | Bold Numb rage, 2346 |
|----|---|---------------------------------|
| | Noah cursed his grandson Canaan. | DoZing Numb race, 2340 |
| 11 | Tower of Babel built. | TiDy New Anarchy, 2247 |
| 12 | Nimrod founded the kingdom of Babylon. | TiNy Now antique, 2217 |
| 13 | Asshur built Nineveh. | TaMe NINNY DOG, 2217 |
| 14 | Kingdom of Egypt founded. | DaRing NEAT FIEF, 2188 |
| | Dynasty of the Shepherd Kings of Egypt. | TaLl Unsavory, 2084 |
| | | aSHy DAY of a POPPY SHOW, 1996 |
| 17 | | rated — [church] — DEPEND, 1921 |

THIRD GRAND DIVISION OF TIME.

From the call of Abraham to the departure of the Israelits from Egypt.

EGYPTIAN BONDAGE.—Remiss, 440.

| | EGYPTIAN DONDAGE.— | nemuss, 440. | |
|----|--|----------------------------|------|
| 18 | Separation of Abraham and Lot. | DeFace Thy happiness, | 1920 |
| 19 | Abraham build an altar in Canaan. | DeBased Idea of Happiness, | 1920 |
| | Abram rescued Lot from the four kings. | NiCe DAY for BEATING, | |
| | Melchisedec blessed Abraham. | NoTed AID of BOTANY, | |
| 22 | Birth of Ishmael. | KNOWN ADOPT US, | |
| 23 | Circumcision Instituted. | NaMeless Tough Book, | 1897 |
| 24 | Abraham entertained three Angels. | NaRrow Tough Book, | |
| | Lot's wife became a pillar of Salt. | NuLl Tough Book, | |
| | Destruction of Sodom and Gomorrah. | New SHaped Tough Book, | |
| 27 | Birth of Isaac. | NaKed Dove on the Bush, | |
| 28 | King Abimaleck took Sarah from Abrahan | n. NoVel Dove on the Bush, | 1896 |
| | Abraham offered his son Isaac in sacrifice. | | |
| 30 | Death of Isaac. | aMaZing Tough LEAP, | |
| 31 | Marriage of Isaac and Rebecca. | MeT Two in the flesh, | |
| | Kingdom of Argus founded by Inachus, | MeaN Tough Ledge, | 1850 |
| | Birth of Esau and Jacob. | MiMic Tough match, | 1836 |
| 34 | Death of Abraham. | MaRble Divinity, | 1821 |
| 35 | Invention of Letters by Memnon, the Egyp | otian. sMaLl DIVINE IDEA, | 1821 |
| | Esau sold hi birthright for a mess of potta | | 1816 |
| | Jacob thro' deceit obtained the blessing of Is | | |
| | | | |

| 38 Death of Ishmael. MoVing Attack on a wigwam, 1773 |
|--|
| 39 The deluge of Ogyges. MaPle Thick shower, 1764 |
| 40 Jacob fled from the wrath of Esau. RaCing Dog LEAP, 1759 |
| 41 Jacob's dream at Bethel. RuDdy Thick Low Boy, 1759 |
| 42 Rebecca died. Run Talk lowly, 1755 |
| 43 Jacob married Leah and Rachel. RoMan *Colony, 1752 |
| 44 Birth of Joseph. RaRe *Cruel, 1745 |
| 45 Jacob returned and was reconciled to Esau. Real Die in the CAMP, 1739 |
| 46 Schecemites massacred by the brothers of Dinah. |
| wRetCHed Thick muss, 1730 |
| 47 Joseph sold by his brethren. RaGged *Convoy, 1728 |
| 48 Joseph persecuted for his chastity in the house of Potipher. |
| RoVing Decked wife, 1718 |
| 49 Death of Isaac. RiPe Thick dash, 1716 |
| 50 Joseph made prime minister of Egypt. LaZy *Requital, 1715 |
| 51 Joseph's brothers went down to Egypt to buy corn, LiTtle Trick sack, 1707 |
| 52 Joseph made himself known to his brethren, LeNient Thick sash, 1706 |
| |
| 53 Jacob and all his household went down to Egypt. |
| LuMinous Thick sash, 1706 |
| 54 Jacob died in Egypt after blessing his twelve sons. Large Dutch for, 1689 |
| 55 Jacob's remains transported from Egypt to Canaan. LoyaL Dutch for, 1689 |
| 56 Joseph died. LaSHed-up Dutch Mill, 1635 |
| 57 Chronology of the Arundelian marbles began. Lucky Tall fine, 1582 |
| 58 Aaron born. LiVely *Liquor, 1574 |
| 59 Pharaoh's edict to destroy male Hebrew children. LiBerty Tall gain, 1572 |
| 60 Moses born and miraculously preserved. CHoSen Delegate, 1571 61 Cecrops settled Attica. SHoT Tall ledge, 1556 |
| 61 Cecrops settled Attica. SHoT Tall ledge, 1556 |
| 62 Scamander founded the kingdom of Troy. SHiNing DULLER AGE, 1546 |
| 63 Moses fled to Jethro, whom he served forty years. GeM *Almighty, 1531 |
| 64 Deluge of Deucalion in Thessaly. CHeeRless und Toilsome, 1503 |
| 65 The council of the Amphyctions established. SHaLlow *Rebuke, 1497 |
| 66 Cadmus introduced the Phenician letters into Greece. JudGe Turban, 1492 |
| 67 Miracle of the burning bush. 68 Moses returned to Egypt. Un-SHaKen Tribute, 1491 SHiVered Tribute, 1491 |
| 68 Moses returned to Egypt. SHiVered Tribute, 1491 |
| FOURTH GRAND DIVISION OF TIME. |
| FOURTH GRAND DIVISION OF TIME. |
| From the departure of the Israelites to the Dedication of the Temple. |
| Trojan War.—Revoke, 487. |
| , , |
| 69 Pharaoh and his host drowned in the Red Sea. CHeaP WATERY BED, 1491 |
| 70 Law from Mount Sinai. CoStly Attribute, 1491 |
| 71 Israel worshipped the Golden Calf. QuieT Dear abode, 1491 |
| 72 Passover instituted. CuNning Dear abode, 1491 |
| 73 Tabernacle set up in the wilderness. Common Dear Piece, 1490 |
| 74 Nadab and Abihu struck with sudden death. QueeR Troops, 1490 |
| 75 The blasphemers stoned by order of Moses. CLothed Нуркорновіл, 1489 |
| 76 Moses sent twelve spies into the promised land. KitCHen Dear fib, 1489 |
| 77 Destruction of Karah, Dathan and Abiram. QuaKing Rough FOE, 1488 |
| 78 Dardanus founded the city of Troy. CoVered Turf House, 1480 |
| 79. Erection of the brazen serpent, by order of Moses. |
| CaPacious Dare lean, 1452 |
| 80 Aaron died on Mount Hor. FaCe Dare Lion, 1452 |
| |
| * The star indicates that the letter which furnishes 1 is wanting in the word. The figure 1 stands for |

^{*} The star indicates that the letter which furnishes 1 is wanting in the word. The figure 1 stands for one thousand, which is feft for the pupil's understanding to supply; which gives us some more appropriate indicating words than we could otherwise obtain.

| 8 | 32 33 | Balaam's ass spoke and reproved his maste Moses died on Mount Nebo in sight of Car The Israelites cross Jordan under Joshua. | Fancy Dare Lead, 144 Famed Tower Light, 145 | 51 51 |
|----|----------|--|---|----------|
| | | Fall of Jericho under the trumpets of Josha Achan stoned, with his wife and children, k | | 50 |
| | | The sun and moon stood still on Mount Gik | FooLish Tearless, 14 | 50 |
| | | | un-FaSHionable Tearless, 14 | 50 |
| 0 | | Final conquest of Canaan under command | ViGorous Dare Rule, 14 | 45 |
| | | The tabernable set up on Shiloa. Death of Joshua. | ViVid Water Roar, 14 | |
| | | Cushan, king of Mesopotamia, enslaves Isra | VaPorous Odor of α Worm, 14-ael. | 40 |
| | | * | PaSsage Straight Home, 14 | |
| | | First Jubilee celebrated in Israel. | BeauTiful Dumb Bush, 139 | 96 |
| 9 | 12 | Ceres teaches the Athenians the art of Agr | | ດຄ |
| O | 13 | Ruth followed Naomi to Bethlehem. | BeNding Time and fame, 13 BeMoaning Sweet maiden, 13 | |
| | | Institution of the Olympic games. | BRight Sweet music, 130 | |
| | | Deborah the prophetess ruled Israel. | BLunt Downfal, 12 | |
| 9 | 6 | Ninus founded the Assyrian Empire. | PatCHed Stone jug, 120 | |
| | | Argonautic expedition. | BeGging HIDDEN GEM, 120 | |
| | | Tyre founded. | BeFitting TINY LITLY, 12 | |
| | | Gideon rescued Israel from the Midianites. | PaPer TINY ROLL, 12 | |
| 10 | 0 | Abimelech slew seventy of his brethren. | DeCiSively Attain Homage, 123 | 36 |

SECOND SERIES.

| | 78 | C d and he'ld be a shown of There's and the state of the | |
|---|----|---|--|
| | | Carthage built by a colony of Tyrians. sTout Dun Mummy, 1233 | |
| | | Jepthah sacrificed his daughter. New Wicked vow Go, 1187 | |
| | | The destruction of Troy. Modern Hot wood fire, 1184 | |
| | 4 | Birth of Samuel. , Rich Tidy and Good, 1171 | |
| | 5 | Samuel offered to the Lord by his mother. Long Duty to Jehovah, 1168 | |
| | 6 | Birth of Sampson. CHief WITTY DELILAH, 1155 | |
| | | Sampson killed one thousand Philistines with a jaw bone. | |
| | | Curious Stout match, 1136 | |
| | 8 | Sampson carried off the gates of Gaza. Fine Stout owner, 1124 | |
| | | Sampson's overthrow of the temple, and his death. | |
| | | Bol-d attack, 1117 | |
| 1 | 0 | Mariner's compass used in China. DoZing Stout idel, 1115 | |
| | | Saul was anointed first king of Israel by Samuel. TiDy Disciple, 1095 | |
| | | Jonathan, with his armor-bearer defeated the Philistines. | |
| 1 | 2 | | |
| 4 | 0 | TiNy Does havoc, 1087 | |
| | | David born at Bethlehem. FaMe This valley, 1085 | |
| | | Samuel hewed king Agag into pieces. DaRing Task of a hero, 1074 | |
| | | David killed Goliah. Tall Dizzy shock, 1067 | |
|] | 16 | David played on his harp to drive away Saul's melancholy. | |
| | | DaSHy Odious chime, 1063 | |
| 1 | 7 | David anointed secretly by Samuel. DeCorated Dose of Shame, 1063 | |
| | | David fled to escape the jealous wrath of Saul. TouGH ODD ASSOCIATE, 1061 | |
| | | Abimelech and eighty-five other priests killed by order of Saul. | |
| | | DeFaced Odd Associate, 1061 | |
| | | 9. | |

| 20 David feigned madness to escape from king Achish. | |
|--|-----------------------------------|
| | ASSOCIATE, 1061 |
| | of cheese, 1060 |
| 22 City of Ziglag presented to David by king Achish. | 4080 |
| | TLE SHOW. 1056 |
| 23 Saul raised the ghost of Samuel—witch of Endor. NaMeless | |
| 24 Thieves of Ziglag carried away the wives and treasures of Da | |
| | DISLOYAL, 1055 |
| 25 David destroyed the thieves of Ziglag, and recovered his wive | DISLOYAL, 1055 |
| | DESERVE, 1048 |
| 30 Ishbosheth murdered, and his head carried to David. | |
| | OES RAVE, 1048 |
| 31 Amnon slain by his brother Absalom. MeeT Do | DES AMISS, 1030 |
| 32 David forgave Absalom the murder of his brother Amnon. | |
| Mean I | Design go, 1027 |
| 33 Absalom's rebellion against David. 34 Absalom killed by Joab. MiMic Opt. MaRble Opt. | OUS NAME, 1023 |
| 34 Absalom killed by Joab. MaRble Odi | ous name. 1023 |
| 35 Sheba revolted against David at the head of ten tribes. | D 1000 |
| | Disunion, 1022 |
| | FEAST GO, 1017 |
| | d Tacitly, 1015 |
| 38 Adonijah, brother of Solomon, proclaimed king. MoVing | TACHTE, 1015 |
| 39 Solomon crowned king of Israel. MaPle | TACITLY, 1015 |
| 40 Adonijah and Joab put to death by order of Solomon. RoSe | DESTROY, 1014 |
| 41 Solomon's judgment upon the child. ReaD The HEIGHT | of WISDOM, 1013 |
| 42 Solomon dedicated the temple. RuN 7 | THIS SEER, 1004 |
| | |
| FIFTH GRAND DIVISION OF TIME | 4. |
| From the Dedication of Solomon's Temple to the Foundation | ding of Rome. |
| Homer—New Line, 252. | |
| HOMER—Ivew Line, 202. | |
| | HIS SCENE, 1002 |
| | BEHAVIOR, 984 |
| | BUY FAME, 983 |
| | ed Beguile, 975 |
| | ed Beguile, 975 |
| | ng Beguile, 975 |
| 49 Shishak, king of Egypt, plundered the temple of Jeroboam. | D |
| | BEQUEATH, 971 |
| | Zy Bright, 941 BE UNHAPPY, 929 |
| 52 Zimri burnt himself and his family in his own house. L | eaN Panic, 927 |
| 53 Omri, king of Israel, made Samaria the seat of his kingdom. | Cart I Anto, Ozi |
| | us Banner, 924 |
| | BEAUTIFY, 918 |
| | aL Better, 914 |
| | up Poetry, 914 |
| | Ky Piteous, 910 |
| 58 Elijah's trial with the prophets of Baal. Live | ly Besiege, 906 |
| 1 | , |
| | |

| 59 Elisha anointed by Elijah as his successor. LiBerty Passage, 906 | 3 |
|--|---|
| 60 Kingdom of Assyria came to an end. ChoSen Basis, 900 | |
| 61 Ahab took possession of Naboth's vineyard. SHoT For of a Box, 899 | |
| 62 Elijah the prophet translated to Heaven. SHiNing Heavy Badge, 890 | |
| | , |
| 63 God, by two bears, destroyed forty-two children for mocking Elisha. | 0 |
| GeM Heavy badge, 890 |) |
| 64 Elisha's miracles of the oil, the pottage, and the bread. | |
| CHeeRless Fable, 893 | |
| 65 Namaan's leprosy cured by Elisha. SHalLow Vapor, 894 | 1 |
| 66 The army, sent to take Elisha, smitten with blindness. | |
| Judge Heavy bomb, 895 | 3 |
| 67 Benhadad, king of Syria besieged Samaria. SHaKen Heavy Weapon, 892 | |
| 64 Two Hebrew mothers eat their own children. SHiVered HEAVY WEAPON, 895 | |
| | |
| | |
| 70 Laws of Lycurgus, CoStly Fever, 884 | |
| 71 Jehu excommunicated the family of Ahab. QuieT Fever, 884 | |
| 72 Jezebel devoured by dogs. CuNning Fever, 884 | |
| 73 Jehu destroyed the temple and the priests of Baal. Common Fever, 884 | 1 |
| 74 Athaliah precipitated from her usurped throne. QueeR Civic foe, 878 | 8 |
| 75 Joash proclaimed king of Judah by the high priest Jehoida. | |
| CLothed Civic foe, 878 | 3 |
| 76 Foundation of Carthage by Dido. KitCHen Heavy job, 869 | |
| 77 Zechariah, the high priest, stoned to death. QuaKing Force, 840 | |
| 78 Kingdom of Macedonia founded by Caranus. CoVered Fathom, 813 | |
| | |
| 79 Jonah swallowed by a whale. CaPacious Physic, 80% | 4 |
| 80 Repentance of the Ninevites—miracle of the gourd. | |
| Fuzzy Heavy siege, 800 | 0 |
| 81 Isaiah began to prophecy. FooT Globe, 759 | |
| 82 Romulus founded Rome upon the Tiber. Fancy Colony, 75% | 2 |
| CIVILL OF AND DIVICION OF TIME | |

SIXTH GRAND DIVISION OF TIME.

From the Foundation of Rome to the Battle of Marathon.

ROMAN KINGS.—New chain, 262.

| - | 83 | Rape of the Sabines. Falled Gallows, | 750 |
|---|----|---|-----|
| 1 | 84 | The first Messenian war. aiR QUEER WHIM, | 743 |
| 1 | 85 | Ahaz, king of Judah, set up idol worship. FooLish Koran. | 742 |
| | 86 | Hezekiah destroyed the brazen serpent of Moses. | |
| | | FaSHionable Gain from α show, | 726 |
| | 87 | End of the kingdom of Israel—destroyed by Salmanazar. | |
| | | ViGorously Gained, | 721 |
| 1 | 88 | Tobit, the sage, carried into captivity to Nineveh. ViVid Gained, | 721 |
| | 89 | Miracle of the sun-dial—Hezekiah restored to health. | |
| | | VaPerous Sick time, | 713 |
| 9 | 90 | Senacherib besieged Jerusalem, PaSsage Kitten, | 712 |
| | | Senacherib's army destroyed by an angel. BeauTiful KITTEN, | 712 |
| | | Tobit loses his sight by an accident. BeNding Goddess, | 710 |
| | | Dejoces founded the Medean empire. BeMoaning Goddess, | 710 |
| | | Tobit persecuted by his ill-tempered wife. BRight GAY USAGE, | 706 |
| | | The second Messenian war. BLunt Shuffle, | 685 |
| | | Tobias became the seventh husband of Sarah, daughter of Raguel. | |
| | | PatCHed Shiver, | 684 |
| | 97 | Tobit recovered his sight by a miracle of his son Tobias. | |
| | | BeGging Shiver, | 684 |
| | | | |

98 The prophet Isaiah sawn asunder between two boards.

99 Esarhaddon took Jerusalem.

100 Combat between the Horatii and Curatii.

BeFitting Age of Vice, 680
PaPer Shook the key, 677
DeCiSively Showy joke, 667

THIRD SERIES.

| 1 | Holofernes killed by Judith. sTout Shallow Joy, | 656 |
|-----|---|------|
| | Scythians invade Media. New Sherief, | |
| | Josiah, the Pious, began to reign. Modern Short, | |
| | Ancus Martius, the fourth king of Rome. Rich Shears, | |
| | Jeremiah began to prophecy. Long Geneva, | |
| | Pentateuch found by Hilkiah. CHief Joiner, | |
| | Sanguinary laws of Draco. Curious Huge enemy, | 000 |
| | Necho, king of Egypt, dethrones Jehoahaz. Fine Jets, | |
| | Nebuchadnezzar took Jerusalem. Bold Showy siege, | |
| | First captivity of Judah under Nebuchadnezzar. DoZing Showy siege, | |
| | Daniel, the prophet, carried to Babylon. TiDy Jewish seige, | |
| | First circumnavigation of Africa, under king Necho. Tiny Joyous Era, | |
| | Susanna assaulted by the two elders. Tame Chaste, | |
| | Jehoiakim taken to Babylon, and imprisoned. DaRing Low PEEP, | |
| | Ezekiel and Mordecai taken to Babylon. Tall Low PEEP, | |
| | Laws of Solon. DaSHy Helper, | |
| | End of the kingdom of Judah—destroyed by Nebuchadnezzar. | UUT |
| 1.4 | DeCorated LL and HEAVY FOE, | 588 |
| 18 | Zedekiah's eyes taken out by order of Nebuchadnezzar. | 000 |
| 10 | DeFace Ill and HEAVY FOE, | 588 |
| 10 | | |
| | | |
| 21 | Nebuchadnezzar's golden image set up. NiCe Lives, The three children saved from the fiery furnace. NoTed Lives, | |
| | | 000 |
| RR | Daniel interpreted Nebuchadnezzar's dream of the tree. | 570 |
| ຄວ | kNowN Likewise, | |
| | Nebuchadnezzar loses his reason. NaMeless Silly sheep, Nebuchadnezzar loses his reason. | |
| | Nebuchadnezzar recovered his reason. NarRow Low Jam, Narl Lawrence | |
| | Death of Nebuchadnezzar. NuLl All join, Lebeigebin restaured to liberty by Fril Mars Josh, New Stlength Azz zon, | |
| | Jehoiachin restored to liberty by Evil Merodach. New SHaped All Join, | |
| | Pisistratus usurped the tyranny of Athens. NaKed Lashes, | |
| | Daniel's vision of the four beasts. NoVel All Lowly, | |
| | Phocians founded the city of Marseilles. NoBle Lamp, | 339 |
| 90 | Belshazzar's Feast—Daniel explains the handwriting. | 200 |
| 21 | AmaZing Low Move, | |
| | Cyrus took Babylon. MeT Low Move, | |
| | Daniel exposes the trickeries of Bel's priests. Mean Lamech, | |
| | Daniel cast into the lion's den. MiMic Lame cow, | |
| | Cyrus put an end to the Jewish captivity. MaRble Holy MATCH, | 530 |
| 35 | Zerubbabel commenced the rebuilding of the temple. | F00 |
| 00 | Small Holy Match, | |
| | First tragedy at Athens. Mushy Slow Mule, | 535 |
| 37 | Tarquin the proud, seized upon the kingdom of Rome. | WO.4 |
| 00 | MocKed LL HUMOR. | |
| | Confucius published his laws. MoVing Almighty. | 531 |
| 39 | Cambyses, son of Cyrus, ascended the throne of Persia, | ×00 |
| | MaPle All unhappy, | 529 |
| | | |

| 40 Anaximenes, of Miletus, invented the sun-dial. RaCing Leanness, | 520 |
|---|-----|
| 41 Darius repudiated Vashti and married Esther. RuDDy Slighty WIFE, | |
| 42 Dedication of the second temple. RuNning Loudly, | 515 |
| 43 Darius invaded the Scythians, and was repulsed. RoMan Holy Dame, | |
| 44 Esther saved the Jews from a general slaughter. RaRe Lots, | |
| 45 Triumph of Mordecai, the uncle of Esther. Real Lots, | 510 |
| 46 Haman, the enemy of the Jews, hung on a gallows, fifty cubits high. | |
| wRetCHed Lors, | 510 |
| 47 Feast of Purim instituted by the Jews. RaGged Lots, | 510 |
| 48 Tarquin the Proud, expelled from Rome. RoVing Lise, | 509 |
| 49 Brutus established the Roman republic. Ruby Lisp, | |
| 50 First alliance of the Romans with the Carthagenians. Loose Lazy for, | 508 |
| 51 Sardis burnt by the Ionians. LitTle Air Pipe, | 499 |
| 52 First dictator of Rome—Laertius. LeNient Rebuff, | 498 |
| 53 Institution of the Saturnalia by the Romans. LuMinous Year Book, | 497 |
| 54 Tarquin the proud died at Cuma. LaRge Reply, | 495 |
| 55 Darius undertook his unsuccessful expedition against the Greeks. | |
| LoyaL Reply, | 495 |
| 56 Establishment of the Roman Tribunes. LaSHed-up European, | |
| 47 Banishment of Coriolanus from Rome. Lucky Repaid. | 491 |
| 58 Battle of Marathon—the Greeks against the Persians. LiVely Repose, | 490 |
| | |

SEVENTH GRAND DIVISION OF TIME.

From the Battle of Marathon to the Birth of Alexander.

GRECIAN GLORY.—Teamer, 134.

| | | ORECIAN GLORI.— I conto, 194. | |
|---|----|---|-----|
| | 59 | The first proposition of the Agrarian law. LiBerty RIVAL, | 485 |
| | | Aristides the Just, banished from Athens. ChoSen Rover, | |
| | | First Questors at Rome. SHoT RAVEN, | |
| | | Battle of Thermopyle-Leonidas opposes Xerxes. SHiNing WAR OFFICE, | |
| | | Battle of Salamis—Themistocles defeated the Persians. | |
| | - | GeM War office, | 480 |
| 1 | 64 | Battle of Platæa. CheeRless Heroic Boy, | |
| | | Flight of Themistocles to Persia. SHaLlow Roguish, | |
| | | Ezra commissioned by Artaxerxes to build Jerusalem. JudGe Rash Go, | |
| | | Cincinnatus, dictator of Rome. ShaKen Relish, | |
| | | Nehemiah made governor of Judea by Artaxerxes. ShiVered Ruler, | |
| | | Creation of the Decemvirs. CheaP Royalty, | |
| | | Banishment of Decemvirs, and death of Virginia. CoStly Sorry RAPE, | |
| | 71 | Herodotus read his history at the Olympic games. QuieT RARELY, | |
| , | 72 | First military Tribunes at Rome. CuNning RARELY, | |
| | | Plebeians allowed to intermarry with the Patricians. Common RARELY, | |
| | | Pericles successful in the Samian war. QueeR Warriors, | |
| | | Roman Censors appointed. CLothed Rome AWAKE, | |
| | | Ezra flourished. KitCHen Remake, | |
| | | Peloponnesian war, lasted 27 years. QuaKing WARMED, | |
| 2 | 78 | The plague at Athens. CoVered RAINBOW, | |
| | | Pericles died, aged 70. CaPacious RAINBOW, | |
| | | Malachi, the last of the prophets, died. FaCe Ruins, | |
| 1 | 81 | End of the Peloponnesian war—thirty tyrants rule Athens. | |
| | | Retreat of the ten thousand. Fancy Arrest, | 401 |
| | | Expulsion of thirty tyrants from Athens, by Thrasybulus. | |
| | | FaMed Residue, | 401 |
| | 84 | Death of Socrates. FaiR Roses, | |
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| 85 | Battle of Coronea. | FooLish Empire, 394 |
|----|--|--------------------------|
| | Thucydides, the historian, died, aged 80. | FaSHionable Embody, 391 |
| 87 | Rome taken by the Gauls under Brennus. | ViGorous Embassy, 390 |
| | Battle of Leuctra—Bœotians and Lacedemonians | ViVid Maggor, 371 |
| | The first Plebeian consul at Rome. | VaPorous Magic, 367 |
| | The Thebans triumph at Mantinea. | PaSable Machine, 362 |
| | Hippocrates, the father of medicine, died, a 90. | BeauTiful MATCH DIE, 361 |
| | Discovery of analysis, by Plato. | BeNding Matches, 360 |
| | Xenophon, the historian, died, a 90. | BeMoaning Small Boy, 359 |
| | The accession of Philip II, king of Macedon. | BRight SMALL BOY, 359 |
| | The breaking out of the sacred war. | BLunt My LIFE, 358 |
| 96 | Birth of Alexander the Great. | PatCHed Small show, 356 |
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EIGHTH GRAND DIVISION OF TIME.

From the Birth of Alexander to the Destruction of Carthage.

| ROMAN RENOWN.—Anights, 210. |
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| 97 The erection of the Mausoleum, the sixth wonder of the world. |
| BeGging Mallet, 351 |
| 98 The Plebeians admitted to the censorship. BeFitting Mallet, 351 |
| 99 Second commercial treaty between Rome and Carthage. |
| PaPer Mere foe, 348 |
| 100 Plato, the philosopher, died, aged 80. DeCiSive Mere foe, 348 |
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| 1 | Samnite war with the Romans, continued 53 years, s'Tout Maw worm, | 343 |
|-----|--|-----|
| ດ | Pattle of Change of wear by Philip | 227 |
| | Battle of Chæronea, won by Philip, New Mimic, | |
| 3 | Plebeians admitted to the Prætorship of Rome. Modern Whim of Homage, | 336 |
| 4 | Accession of Darius and Alexander the Great to the throne, | |
| | | 226 |
| | Rich Aim at much, | |
| 5 | Destruction of Thebes by Alexander, Long Memory, | 334 |
| 6 | Battle of Granicus won by Alexander. Chief Memoir, | 334 |
| | Alexander captured the city of Tyre. Curious Home of Ammon, | |
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| | Battle of Arbela; fall of Darius. Finely MAIMED, | |
| 9 | Alexander penetrated into India. Bold Maniac, | 327 |
| 10 | Death of Alexander, aged 32. Dozing Man of war, | 324 |
| | Demosthenes poisoned himself, aged 60. TiDy Minion, | |
| | | |
| | Aristotle the philosopher died, aged 62. TeNacious Humanity, | |
| 13 | The Samnites pass the Romans under their yoke. TaMe Humanity, | 321 |
| 14 | Seleucus established the kingdom of Syria. DaRing MATTER, | |
| | | |
| | Battle of Ipsus. Antigonus defeated. Tall Mast, | |
| 16 | Papirius Cursor erected the first sun dial at Rome. DutCH NEW BEAM, | 293 |
| 17 | Pharos of Alexandria built, DeCorated New fire, | 284 |
| | College and Library of Alexandria founded. TouGH INFAMY, | |
| | | |
| | The Gauls invaded Greece. TaBby Hen coop, | |
| 20 | Septuagint translation of the Old Testament. NiCe Synagogue, | 277 |
| 21 | The first silver money coined at Rome. NoTed New ship, | 269 |
| | The first Punic war commenced. KNowN INJURY, | |
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| | The first naval conquest of the Romans. NaMeless Own Choice, | |
| 24 | Regulus defeated by the Carthagenians. NaRrow Analogy, | 256 |
| | All the records in China destroyed by an imperial edict. NuLl ANARCHY, | |
| ,30 | and rooted in online doshojoury and important out on the restaurants. | |
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CoStly Dram, 143 QuieT Drone, 142

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| | End of the first Punic war. New SHaped New Ruin, 242 | |
| | First play acted at Rome. NaKed Nurse, 240 | |
| | Temple of Janus shut for the first time since Numa. NoVel Anomaly, 235 | |
| | The first divorce at Rome. NoBle Enmity, 231 | |
| 30 | Publication of the first Roman history, Fabius Pictor. MaSsive New Nail, 225 | |
| 31 | First Physician at Rome, McTallic New Top, 219 | |
| | Destruction of Saguntum by Hannibal. Man New Top, 219 | |
| | Second Punic War. MiMic NATIVE, 218 | |
| | Battle of Thrasymene. MaRble Nut Hook, 217 | |
| | Battle of Cannæ won by Hannibal. Mall Noisy show, 216 | |
| | The Romans took Syracuse. MiSsionary Indian, 212 | |
| | Hannibal defeated at the battle of Zama. Mock Snowy Scene, 202 | |
| | End of the second Punic War. MoVing Honestry, 201 | |
| | The Romans defeat Antiochus the Great. MaPle Head Piece, 190 | |
| | Scipio Asiaticus. RoSy Head Piece, 190 | |
| | Asiatic luxuries first brought to Rome. ReD Topaz, 190 | |
| 40 | Philopemen abolished the laws of Lycurgus. RuNning Eighty-five, 188 | |
| 42 | Banishment of Scipio Africanus from Rome. Rull Hing Elghty-Five, 188 RoMan Tough Go, 187 | |
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| | Heliodorus struck senseless in the temple by an angel. RaRe Decayish, 176 | |
| 40 | Jason by corrupting Antiochus was made High Priest. ReaL ETHICAL, 175 | |
| 40 | Manelus by bribery obtained the High Priesthood. WRetCHed Tickle, 175 | |
| 47 | Antiochus laid waste India and destroyed Jerusalem. RaGged HAT CASE, 170 | |
| 48 | Invention of paper in China. RoVing Tax, 170 | |
| | Perseus defeated and brought prisoner to Rome. RiPe Dutch vow, 168 | |
| | General slaughter of the Jews by Apollonius. LaZy Dutch foe, 168 | |
| | The seven brothers tortured to death by Antiochus. LiTtle Dashy gay, 167 | |
| 52 | Mattathias and his five sons resist the tyranny of Antiochus. | |
| | Lean Dutch Hawk, 167 | |
| 53 | First Library erected at Rome. LuMinous Dashy and Gay, 167 | |
| | Apollonius defeated and slain by Judas Maccabeus. LaRge Adjudge, 166 | |
| | Nicanor's army defeated by Judas Maccabeus. Loyal Adjudge, 166 | |
| 56 | Lycias with a powerful army defeated by Maccabeus. | |
| | LaSHed up Whitish Hill, 165 | |
| 57 | Heroic self-sacrifice of Eleazar, brother of Maccabeus. Lucky Teacher, 164 | |
| 58 | Antiochus died, smitten by the hand of God. LiVely Teacher, 164 | |
| 59 | Antiochus died, smitten by the hand of God. Menelaus, the High Priest, put to death. LiVely Teacher, 164 LiBerty Hot Chain, 162 | |
| 60 | First edict that banished from Rome philosophers and rhetoricians. | |
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| 16 | Varro, the most learned of the Romans died, aged 87. | DutCH Envoy, | 28 |
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| 17 | Augustus proclaimed Emperor of Rome. | DecCorated NAG, | 27 |
| 18 | Ovidius banished by Augustus. | TouGH Sins, | 20 |
| 19 | Virgil,* as poet, excelled his cotemporary. | TIBULLUS 19 a. | 50 |
| 20 | Herod begun to build the temple at Jerusalem. | NiCe Deck, | 17 |
| 21 | Augustus Pontifex Maximus burnt 2000 pontifical books | . NoTed TIME, | 13 |
| 22 | Horace, the greatest of the Lyric poets, died, aged 56. | kNowN Joy, | 8 |
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| TEN PERSECUTIONS.—Message—306. | |
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| 31 Tiberius became Emperor of Rome. MeTallic Dower, 1 | |
| 32 Livy, the prince of Roman historians died, aged 67. MeaN Decoy, 13 | |
| 33 Pontius Pilate, governor of Judea. MiMic Yankee, 27 | 7 |
| 34 Strabo, geographer and historian. MaRble Knife, 28 | |
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| 41 Sergius Paulus, the Proconsul, converted through Paul. ReD Lion, 52 | |
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^{*} The name of the poet Tibullus gives both the age and death of Virgil.

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| 92 Arcadius succeeded to the Eastern, and Honorius to | the Western Empire. |
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| 93 The first bell founded. | BeMoaning Recess, 400 |
| 94 The kingdom of the Visigoths founded. | BRight RETINUE, 412 |
| 95 The kingdom of the Burgundian sestablished. | BLunt Rhythm. 413 |
| 96 The kingdom of the Franks founded. | PatCHed Ruins, 420 |
| 97 The kingdom of the Vandals in Africa founded. | BeGging RANGE, 426 |
| 98 The Romans withdrew from Britain. BeF. | itting Runaway foe, 428 |
| 99 The Saxons entered Britain. | PoPpy RARE PAY, 449 |
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| 4 Augustus Romulus, last emperor of Rome. | Rich Roguish, 476 |

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From the Extinction of the Western Empire to the Flight of Mahomet.

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| | An insurrection at Constantinople. | DutCH Low MAN, | |
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| | Belisarius took Carthage. | TouGH LAME HERO, | |
| | Computation of time from the Christian era. | DeBase Solemn Age, | |
| | Belisarius conquered Italy, and took Rome. | NiCe LAME COW, | |
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| 27 | Narses defeated the Goths and governed Italy. | | 553 |
| | An earthquake in the East. | NoVel Lowly Echo, | 557 |
| | Kingdom of Lombards founded. | NoBle Law CHIEF, | |
| | The Latin language ceased to be spoken in It | | |
| | Antioch destroyed by an earthquake. | MeTallic Low abyss, | 590 |
| 82 | Gregory the Great becomes Pope. | MeaN Low abyss, | 590 |
| 33 | St. Augustine went to Britain. | MiMic Help of a Jew, | 5 96 |
| 34 | Papal supremacy and image worship. | MaRble Joyous Age, (| 606 |
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| 36 | Clotaire II. sole king of France. | MiSsionary Watched him, | 613 |
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From the Flight of Mahomet to the Crowning of Charlemagne.

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| 39 Pens first made from quills. | Maple Sham vow, 634 |
| 40 Alexandrian library destroyed. | RoSy Shears, 640 |

| 41 The Lombard code of laws. | RuDdy Charm, 643 |
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| 42 The Saracens took Cyprus. | Running Sheriff, 648 |
| 43 The Saracens took Rhodes and erected the Colossu | |
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| 44 Organs first used in churches. | RaRe Showy Help, 659 |
| 45 Constantinople beseiged by the Saracens. | ReaLly Shaken, 672 |
| 46 The Saracens invaded Spain, but were expelled. | |
| 47 Ceadwalla took Sussex and Kent. Ra | Gged Showy Voyage, 686 |
| 48 After the battle of Xeres, Roderick was drowned in | a the Guadalquiver. |
| , | RoVing KITTEN, 712 |
| 49 The Saracens took Spain. | RiPe Academy, 713 |
| 50 Leo III. Greek emperor. | LaZy Gothic, 717 |
| 51 Pope Gregory expelled the Lombards. | LiTtle Canboy, 729 |
| 50 The bettle of Towns leated govern days | |
| 52 The battle of Tours lasted seven days. | Lean Common, 732 |
| 53 Saracen Caliph Almanzar. | LuMinous Glory, 754 |
| 54 End of the Lombard kingdom. | Large Quaker, 774 |
| 55 Haroun-Al Raschid, Caliph—he did much for scien | |
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| 57 Restoration of image worship. | Lucky Gave a key, 787 |
| 58 Irene murdered her son Constantine. | LiVely GAVE a KEY, 787 |
| 59 The Danes appear in England. | LiBerty GAVE a KEY, 787 |
| 60 Charlemagne emperor. | ChoSen Faces, 800 |
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| 62 Louis, the German, reigned. | SHiNing Fatigue, 817 |
| 63 Michael II., the Stammerer emperor. | GeM Fancy, 820 |
| 64 Egbert united the Saxon heptarchy. | CHeeRless Event, 821 |
| 65 Michael III, the Drunkard, ascended the throne | of Rome. |
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| 66 Union of the Picts and Scots, forming Scotland | |
| 67 The Normans took Rouen. | CHalK Form, 843 |
| 68 Alfred defeated by the Danes near Wilton. | SHiVered HEAVY COIN, 872 |
| 69 Charles the Fat, emperor. | . CHeaP Fifty, 881 |
| 70 Oxford University founded. | CoStly SAFE VOYAGE, 886 |
| 71 Louis III., emperor of Germany. | QuieT Half a Baby, 899 |
| 72 Death of Alfred the Great, | CuNning Basis, 900 |
| 73 Normans established in Normandy. | Common Button, 912 |
| 74 Five German nations elect an emperor, | CuRious Button, 912 |
| 75 Constantine VII. Emperor. | CLothes Button, 912 |
| 76 Otho, the Great, emperor. | KitCHen Pay an IMAGE, 936 |
| 77 Italy pillaged by Berenger. | Quick Bulb, 959 |
| 78 Hugh Capet, king of France. | QuiVering BAY FOG, 987 |
| 79 Arabic numerals introduced. | CaPacious Dozy swiss, 1000 |
| 80 Ethelred massacred the Danes. | FuZzy Diocesan, 1002 |
| 81 A large comet appeared in Leo. | FOOT WHETSTONE, 1012 |
| 82 Romanus II., emperor. | FiNe Dozy knave, 1028 |
| 83 Leo poisoned Romanus, her husband. | FaMed Dozy moor, 1034 |
| 84 Christian kingdoms of Spain united by Sancho | |
| 85 Battle of Hastings—William I. conquered. | FooLish Odious Judge, 1066 |
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| 87 The first of the Crusades. | ViGorous Dispatch, 1096 |
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From the First Crusade to the Founding of the Turkish Empire.

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| 89 An earthquake in Italy. | VaPorous Deduces, 1100 |
| 90 Wars between England and France began. | PaSsable Tide of time, 1113 |
| 91 The shipwreck, Prince Henry drowned. | BeauTiful Deadness, 1120 |
| 92 Beneventum, Capua, taken by Roger, king of | Sicily, from the Pope. |
| | Bending Stout Meal, 1135 |
| 93 Alphonso, the first king of Portugal. | BeMoaning Stout Mob, 1139 |
| 94 Manuel I., Greek emperor. | BRight DAY DREAM, 1143 |
| 95 The second crusade. | BLunt Deterring, 1147 |
| 96 Frederic Barrabossa came to the throne. | PatCHed TITLE NEW, 1152 |
| 97 Genghis Khan, the greatest of murderers. | BeGging Detacher, 1164 |
| 98 The invasion of Ireland by Henry II. | BeFitting Tot king, 1172 |
| 99 Saladin took Jerusalem. | PoPpy Stout Fig 1187 |
| 100 The third crusade undertaken. | DeCiSive Stout fib, 1189 |
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SEVENTH SERIES.

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| 1 | Richard the Lion King of England. | TIDE of FAME, 1189 |
| | Crusaders took Acre. | New Dead Pope, 1199 |
| | Companus, of Lombardy, the astronomer. | Modern Tidy Baby, 1199 |
| | The fourth crusade undertaken. | Rich Denizen, 1202 |
| 5 | Battle of Tolosa between the Christians and | |
| 6 | The battle of Bouvines, between Philip and J | |
| | Magna Charta granted by king John. | Curious Tin Idol, 1215 |
| | The fifth crusade. | Fine AUTHENTIC, 1217 |
| 9 | Louis IX., king of France. | Bold Athenian age, 1226 |
| | The sixth crusade, by Frederick II. | DoZing Dove enough, 1228 |
| | The Hanseatic league of the towns. | TiDy Downward, 1241 |
| | The seventh crusade, by Louis IX. | TiNy Teneriffe, 1248 |
| | Alphonso X., king of Castile and Leon. | Tame Tone of a Lion, 1255 |
| | Linen first made in England. | DaRing Tone of a loom, 1252 |
| | The second Greek empire established. | Tall Dunlap, 1259 |
| | The first parliament of England. | DutCH DINGY WALL, 1265 |
| | Louis IX. set on foot the eighth crusade, in | |
| | | DeCorated Ton of wax, 1270 |
| 18 | Glass mirrors invented. | TouGH TIN KITE, 1271 |
| 19 | The orders of Mendicants reduced to the | Dominicans, Franciscans, |
| | Carmelites, and Hermits of St. Augustine. | DeBase TAWNY QUEEN, 1272 |
| 90 | Sicilian Vespers, 4000 French massacred. | NiCe TIN VEIN. 1282 |
| | The conquest of Wales by England. | NoTed Thin fame, 1283 |
| | Philip the Fair, king of France. | kNowN Downfall, 1285 |
| | The decision of Edward I. between Baliol an | d Bruce. |
| | | NaMeless Tin pan, 1292 |
| 24 | Wallace's attempt to free Scotland. | NaRrow Heathen pack, 1297 |
| | Founding of the Turkish empire. | NuLlified Tin Pipe, 1299 |
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From the Founding of the Turkish Empire to the Taking of Constantinople.

ROMAN SCHISM.—Tall row, 154.

| 26 Mariner's compass invented. New SHaped Time with the sun, 1302 |
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| 67 Battle of Bannockburn—Scotland freed. NaKed DIAMETER, 1314 |
| 68 Battle of Morgarten, independence of Switzerland. NoVel TIMIDLY, 1315 |
| 29 Notes of of music invented. NoBle Time to muse, 1330 |
| 30 Gunpowder invented. AmaZing Time to be MAD, 1331 |
| 31 Union of Rense, opposition to the Pope. MeeT Time to move, 1338 |
| 32 Cannon invented. MeaN *Mars, 1340 |
| 33 Battle of Cressy, gained by the English. Mimic *March, 1356 |
| 34 A pestilence prevailed through Europe. MaRble Time Rough, 1348 |
| 35 Peter the Cruel came to the throne. Small Doomless, 1350 |
| 36 Great earthquake in South Roumelia. MuSHy Tame Lily, 1355 |
| 37 Battle of Poictiers, king John taken prisoner. Mock Demolish, 1356 |
| 38 John Wickliffe commenced a reformation. MoVing Dumb shows, 1360 |
| 39 Invention of metal drawing and pins. Maple Dumb shows, 1360 |
| 40 Accession of Charles V., of France. RoSe *Imagery, 1364 |
| 41 Accession of Tamerlane. ReD Dumb ox, 1370 |
| 42 The invention of playing cards. RuNning Time of vice, 1380 |
| 43 The insurrection of Wat Tyler in England. RoMan Tame Fight, 1381 |
| 44 John of Portugal, the Usurper, came to the throne. RaRe Tame fellow, 1385 |
| 45 Accession of the house of Lancaster in Henry IV. Real Dumpy Boy, 1399 |
| 46 Accession of Sigismond. WretCHed Tirades, 1410 |
| 47 Battle of Agincourt, the English defeated the French. |
| RaGged Adroitly, 1415 |
| 48 The treaty of Troyes. RoVing Adherence, 1420 |
| 49 The Vulgar Christian era introduced into Portugal. RiPe *Renown, 1422 |
| 50 Joan of Arc raised the siege of Orleans. LaZy True knave, 1428 |
| 51 Joan of Arc burnt at the stake by the English. LiTtle Dairy Maid, 1431 |
| 52 Cosmo I., of Florence, the father of his country. LeaN DREAMER, 1434 |
| 23 Alphonso V, of Naples, came to the throne. LuMinous Turmoil, 1435 |
| 54 Invention of Carriages. LaRge *War Horse, 1440 |
| 55 Invention of Printing. LoyaL *Reward, 1441 56 Constanting VIII less of the Check company Less and Drug Printing. |
| 56 Constantine XIII., last of the Greek emperors. LaSHed Dear Review, 1448 |
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| 59 Corinth taken by the Turks. | LiBerty True Love, 1458 |
| 60 Engraving on copper invented. | CHosen Tragedy, 1461 |
| 61 Accession of Louis XI. | SHoT *Wretched, 1461 |
| 62 Marriage of Ferdinand the Catholic, and Isab | ella. |
| | SHiNing Authorship, 1469 |
| 63 Battle of Tewksbury, Edward IV. defeated h | is enemies. GeM Target, 1471 |
| 64 Charles, of Burgundy, killed. | CHeeRless Tear Quick, 1477 |
| 65 The inquisition established at Seville. | SHaLlow *REVISE, 1480 |
| 66 Slave trade began by the Portuguese. | JudGe True vine, 1482 |
| 67 Battle of Bosworth, Henry VII, defeated Rich | hard III. CHalk TRIFLE, 1485 |

| 68 Cape of Good Hope discovered by Bartholomew Diaz. | |
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| 74 Columbus sent to Spain in chains. Curious Tall ice house, 15 | |
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| 76 Death of Alexander I. from poison prepared for another. | -00 |
| KitCHen Tall sum, 15 | |
| 77 League of Cambray. Quick Tall Seive, 15 | |
| 78 An earthquake at Constantinople, Sept. 14th. QuiVering Tall SEA BOY, 15 | |
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| 80 Battle of Ravenna, gained by Gaston de Foix. FuZzy Withholden, 15 | |
| 81 Florida discovered by Ponce de Leon. FooT Withholden, 13 | |
| 82 Selim I. poisoned his father Bajazet II. Fine Withholden, 15 | 512 |
| 83 Battle of Flodden Field, James IV. slain. Famed STILL TIME, 15 | 513 |
| 84 Accession of Christian II., who married Isabella, sister of Charles V. | |
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| 85 Balboa discovered the South Sea. FooLish Dull time, 15 | 513 |
| 86 Accession of Francis I. Fashionable Do Little, 15 | 515 |
| 87 Battle of Marignan, Francis I. defeated the Swiss. ViGorous Do LITTLE, 15 | |
| 88 Holy League in France. ViVid IDEAL DISH, 15 | |
| 89 Death of Ferdinand, and accession of Charles V. VaPorous Daily dish, 15 | |
| 90 The Reformation of Luther. Passable Tall talk, 13 | |
| 91 Slaves introduced into America. BeauTiful Tall talk, 15 | |
| 92 Invention of gunlocks. BeNdingTall talk, 15 | |
| 93 Discovery of Mexico. BeMoaning Tall thief, 15 | |
| 94 Cortez invaded Mexico. BRight IDEAL TYPE, 13 | |
| 95 Voyage round the world commenced. BLunt IDEAL TYPE, 13 | |
| 96 Charles V. emperor. PatCHed IDEAL TYPE, 15 | |
| 97 The massacre of the Swedish nobility. BeGging IDLENESS, 15 | |
| 98 Death of Montezuma. BeFitting Idleness, 15 | |
| 99 Meeting of Henry VIII. and Francis I. PoPpy Idleness, 15 | |
| 160 Introduction of Chocolate into England. 161 Py IDLENESS, 18 162 Decisive Idleness, 18 | |
| Too introduction of Chocolate into England. Decisive interess, 16 | J.4U |
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EIGHTH SERIES.

| The Turks capture Belgrade. | HEADLAND, 1521 |
|---|---|
| Seige of Rhodes by 200,000 men. | New Tall Nun, 1522 |
| Accession of Gustavus Vasa, the historian. | Modern Dull Name. 1523 |
| Discovery of New Holland by the Portuguese. | Rich outlaw only, 1525 |
| Battle of Pavia, Francis I. taken prisoner by Charl | les V. |
| | Long Dull kneel, 1525 |
| Institution of the Capuchin order. | CHief Outlaw only, 1525 |
| Introduction of Turkies into England. | Curious *Lean owl, 1525 |
| Lutheranism established in Denmark. | Fine Tall Notch, 1526 |
| New Guinea discovered by Savedra, a Spaniard. | Bold Tall NAG, 1527 |
| Vienna besieged by the Turks. | DoZing Idle NAP, 1529 |
| The Reformers acquired the name of Protestant. | TiDy Italian hope, 1529 |
| | Seige of Rhodes by 200,000 men. Accession of Gustavus Vasa, the historian. Discovery of New Holland by the Portuguese. Battle of Pavia, Francis I. taken prisoner by Charl Institution of the Capuchin order. Introduction of Turkies into England. Lutheranism established in Denmark. New Guinea discovered by Savedra, a Spaniard. Vienna besieged by the Turks. |

| 12 First voyage to Guinea for elephant's teeth as ar | a ivory. TiNy Idle mess. 1630 |
|--|-------------------------------|
| 13 The confession of Augsburg. | Tame Idle Mess, 1630 |
| 14 Henry VIII. divorced Catherine and married A | |
| II IIIII VIII WILLIAM WILL IIIIIII W. I. | DaRing Dull Mummy, 1533 |
| 15 Deformation of Hanny VIII in England | |
| 15 Reformation of Henry VIII. in England. | Tall Dull Hammer, 1534 |
| 16 Accession of Christian III. | DaSHy Tall mayor, 1534 |
| 17 Cartier visited Canada. | DeCorated Tall mayor, 1534 |
| 18 Cortez discovered California. | TouGH DULL MEAL, 1535 |
| 19 Anabaptist war in Germany. | DeBased Ideal Homily, 1535 |
| 20 Execution of Anne Boleyn. | NiCe outlaw match, 1536 |
| 21 First suppression of monasteries in England. | NoTed Idol image, 1536 |
| 22 Chili discovered by Diego de Almegro. | kNowN STILL MOHAWK, 1537 |
| | |
| 23 Invention of lotteries. | NaMeless Idle Move, 1538 |
| 24 Expedition of De Soto to Florida. | NaRrow Ideal Map, 1539 |
| 25 Ignatius Loyola founded the order of Jesuits. | NuLl Idle Ruse, 1640 |
| 26 First English vessel sailed to China. N | w SHaped Dull Route, 1540 |
| 27 River Mississippi discovered. | NaKed Still RATE, 1541 |
| 28 Cartier built a fort at Quebec. | NoVel STILL RATE, 1541 |
| 29 Assassination of Pizarro. | NoBle STILL RATE, 1541 |
| 30 Japan discovered by the Portuguese. | |
| | AmaZing *Learn, 1542 |
| 31 Death of Hernando de Soto. | MeT Daily Ruin, 1542 |
| 32 Mary Stewart born. | MeaN *Learn, 1542 |
| 33 Catherine Howard beheaded. | MiMic Dull Ruin, 1542 |
| 34 Peace of Crespi, the French gave up Italy. | MaRble Duly Roar, 1544 |
| 35 Silver mines of Potosi discovered. | SMaLl *Laurel, 1545 |
| 36 Massacre of the Vaudois. | MuSHy *Laurel, 1545 |
| 37 Council of Trent. | MocK Idle Rule, 1545 |
| | |
| 38 Doctrines of Socinius promulgated. | MoVing Idle Rush, 1546 |
| 39 Henry VIII. and Francis I. died. | MaPle Tall Rake, 1547 |
| 40 Cortez, the conquerer of Mexico, died. | RoSe Wood LARK, 1547 |
| 41 Fiesque's conspiracy in Genoa. | ReD Wood LARK, 1547 |
| 42 Scots defeated by the English at Pinkey. | RuNning Tall Rake, 1547 |
| 43 Invention of the balance wheel. | RoMan Tall Roof, 1548 |
| 44 Roberval sailed for Canada with a colony. | RaRe Toil at Rope, 1549 |
| 45 The plough introduced into Peru. | ReaL *LAWLESS, 1550 |
| | |
| 46 Era of the English Puritans. | WRetCHed Lawless, 1551 |
| 47 Servetus executed for heresy by Council of C | |
| | Ragged Still Lamb, 1553 |
| 48 Roxalana murdered her stepson Mustapha. | RoVing STILL LAMB, 1553 |
| 49 The Low Countries invaded by the French. | RiPe TALL LIAR, 1554 |
| 50 Mary married Philip II. of Spain. | LaZy Tall liar, 1554 |
| 51 John Rogers and others burnt. | LiTtle TALL LILY, 1555 |
| 52 Coligni sent a colony to Brazil. | Lean Tall lily, 1555 |
| | |
| 53 Corsica ravaged by the Turks. | LuMinous Duly allege, 1556 |
| 54 Accession of Sebastian at three years of age. | Large Tall Luck, 1557 |
| 55 The French take Calais. | LoyaL Dull Lava, 1558 |
| 56 Peace of Chateau Cambresis. | LaSHed up *Lullaby, 1559 |
| 57 The civil wars in France commence by a com | aspiracy of Amboise. |
| | LucKy Delicious, 1560 |
| 58 John Knox engaged in the Reformation in Sc | |
| oo oomi iinoa ongagou in mo noromanon in oo | LiVely Delicious, 1560 |
| 50 Evia line of Complex | |
| 59 Eric, king of Sweden. | LiBerty Delicious, 1560 |
| 60 Coligni planted a colony in Florida. | CHoSen Theologian, 1562 |
| 61 First civil war in France, Catholics against Pr | |
| | SHoT THEOLOGIAN, 1562 |
| | |

| 62 | The English engage in the slave trade. SHiNing Tall Chain, | 1562 |
|-----|--|-------|
| | Michael Angelo and Calvin died. GeM Tall shore, | 1564 |
| | Challes and Calles Langer Classes Clas | 1504 |
| | Shakspeare and Galileo born. CheeRless Tall shore, | 1564 |
| 65 | Mary, Queen of Scots, married Darnley. SHaLlow Ideal Jewel, | 1565 |
| | The holy league for the extirpation of Protestantism. | |
| | Judge Tall Judge, | 1566 |
| CH | | |
| | Murder of Rizzio. CHalk tall judge, | |
| 68 | The Turks invade Hungary. SHiVered Tall Judge, | 1566 |
| | Second Civil war in France, Battle of Dennis. CHeaP *Logic, | |
| | Murder of Darnley, by Bothwell. CoStly Dull Joke, | |
| | | |
| | Mary Stuart takes refuge in England. QuieT TALL SHEAF, | |
| | Execution of the Counts Egmont and Horn. Cunning Tall sheaf, | 1567 |
| 73 | Battle of Jarnie, the Protestants defeated. Common Idle Chah, | 1569 |
| 74 | Catherine made peace with the Huguenots. CuRious Delicacy, | |
| | | |
| | | |
| 40 | Sigismond II. died, the last of the Jagellons. KitCHen Tall gun, | |
| 77 | The Duke of Norfolk executed. Quick Tall Queen, | 1572 |
| 78 | Remorse and death of Charles II. QuiVering Dull Choir, | |
| | The Spaniards beseige Leyden. CaPacious Dull, | |
| | | |
| | League for the extirpation of the Protestants. FuZzy Dull Quack, | 19// |
| 81 | Republic of Holland formed. FooT Dull CAB, | 1579 |
| 82 | Union of Spain and Portugal. FiNe Tall vase, | 1580 |
| | Siberia conquered. FaMed Still fight, | |
| | Calendar reformed by Gregory XIII. Fair *Leaven, | 1589 |
| | Calculate for the design of the second secon | 150% |
| 00 | Prince of Orange murdered. FooLish Delver, | 1004 |
| 86 | Sir Walter Raleigh attempts to colonize Virginia. | |
| | FaSHionable Deliver, | 1584 |
| 87 | Davis Straits discovered. ViGorous Tall fish, | 1586 |
| | Potatoes introduced into England. ViVid *Lavish, | |
| 60 | Delicher adams and to England by Six Evensia Ducks | 1900 |
| 09 | Raleigh's colony carried to England by Sir Francis Drake. | |
| | VaPorous Lavish, | |
| 90 | Mary Stuart, Queen of Scots, executed. PaSsable Dull fog, | 1587 |
| | Destruction of the invincible Armada. Beau Tiful OUTLIVE the WAVE, | 1588 |
| | The Duke of Guise and the Cardinal of Lorraine assassinated. | 2000 |
| UR | | 1500 |
| 00 | Bending Outlive the wave, | 1998 |
| 93 | The English Mercury, the first newspaper, published. | |
| | BeMoaning Outlive the wave, | 1588 |
| 94 | Henry III. assassinated by Jaques Clement. BRight Tall for, | |
| | Sigismond III. united Poland and Sweden. BLunt *Albino, | |
| | | 100% |
| 90 | Presbyterian church government established by act of Parliament. | 1 ×00 |
| | PatCHed *Albino, | |
| 97 | Henry IV. abjured the Protestant religion. BeGging Dull POEM, | 1593 |
| | The first European child born in North America. BeFitting TULIP GAY, | |
| 00 | | |
| | Edict of Nantes, toleration to Protestants. PoPpy STALE PUFF, | 1000 |
| 100 | Oliver Cromwell born. DeCiSive Tall Baby, | 1599 |
| | | |

NINTH SERIES.

East India Company formed.
 Union of Scotland with England.
 The gunpowder plot.
 The settlement of Jamestown.

DUTCH SEAS, 1600 New DASHY SON, 1602 MoDern DUTCH CELL, 1605 Rich Toyish Scow, 1607

| 5 Founding of Quebec by Champlain. | Long Dutch housewife, | 1608 |
|--|---|--|
| 6 Hudson River discovered. | CHief Swedish spy, | |
| 7 Henry IV. assassinated by Raveillac. | Curious Toyish days, | |
| 8 The Moors expelled from Spain. | FINE DUTCH TOAD, | |
| 9 Accession of Gustavus Adolphus. | Bold DASHY THOUGHT, | |
| 10 Matthias, emperor of Germany. | DoZing Dutch tune, | |
| 11 Pocahontas married John Rolfe. | TiDy Dashy Time, | |
| 12 New York settled by the Dutch. | TiNy Dutch team, | |
| 13 Napier invented logarithms. | Tame Dashy deer, | |
| 14 Last meeting of the States General in Francisco | | TOLE |
| 14 Last meeting of the States General in Francisco | | 1614 |
| 15 Fort Over se built (in the State of New Vor | DaRing Adjutory, | |
| 15 Fort Orange built, (in the State of New Yor | | |
| 16 Concini, Marshal d' Ancre assassinated. | DutCH WATCH TICK | |
| | DeCorated THATCHED HIVE, | |
| 18 Thirty years war commenced in Germany. | TouGH THATCHED HIVE, | |
| 19 Discovery of the circulation of the blood, by | | |
| 20 First Colonial Assembly in Virginia. | NiCe Whitish Type, | |
| 21 Negroes introduced into Virginia. | NoTed Dutch Noise, | |
| 22 Girls sent to Virginia, and exchanged for toba | acco. KNowN Dashy noise, | 1620 |
| 23 Pilgrims landed at Plymouth. | NaMeless Teach news, | 1620 |
| 24 Whig and Tory parties formed in England. | NaRrow Tie a giant, | 1621 |
| 25 Dutch cruelties at Amboyna. | Tall Dutch name, | 1623 |
| 26 The first colony settled in New Hampshire. N | | |
| 27 The first English settlement in the West In | | |
| 28 A pestilence in England. | NoVel DUTCH NAIL, | |
| 29 Delaware settled by Swedes and Fins. | NoBle Dashy NAG, | |
| 30 Maine settled by the English. | MaSs Dutch mess, | |
| 31 Boston settled. | MeT Dutch Mice, | |
| 32 Gustavus Adolphus gained the battle of Le | einsic. Mean Die Ashamen | 1631 |
| 33 The battle of Lutzen in which Gustavus Ac | | TOOT |
| 55 The buttle of Hatzen in which dabtavas in | MiMic Dutchman, | 1639 |
| 34 Accession of Christiana. | MaRble Dutch woman, | |
| 35 Maryland settled by Irish Catholics, under I | | 100% |
| 55 maryland settled by firsh Camones, under | | 1694 |
| 26 Compatient nottled by the English Devitors | SMall Dutch Mayor, | |
| 36 Connecticut settled by the English Puritans | | |
| 37 Rhode Island settled by Roger Williams. | Mock Dutch Homage, | |
| 38 The Pequod Indians subdued. | MoVing Toxish Mug, | |
| 39 Harvard University founded. | MaPle Dutch muff, | 1638 |
| 40 New Haven settled. | ROSO *SHOW WAR | 7 (20)() |
| | RoSe *Show MAP, | |
| 41 Revolution in Portugal. | RuDdy Teach a Heresy, | |
| 41 Revolution in Portugal.42 The Long Parliament convened. | | 1640 |
| | RuDdy Teach a Heresy, RuNning *Shares, | 1640 |
| 42 The Long Parliament convened. | RuDdy Teach a Heresy, RuNning *Shares, rt the Indians. | 1640 1640 |
| 42 The Long Parliament convened. 43 Montreal founded—the Jesuits go to conven | RuDdy Teach a Heresy, RuNning *Shares, rt the Indians. RoMans Teach Heresy, | 1640 1640 1640 |
| 42 The Long Parliament convened.43 Montreal founded—the Jesuits go to convened.44 Sugar cane planted in the West Indies. | RuDdy Teach a Heresy, RuNning *Shares, rt the Indians. RoMans Teach Heresy, RaRe Stage Road, | 1640 1640 1641 |
| 42 The Long Parliament convened. 43 Montreal founded—the Jesuits go to convened. 44 Sugar cane planted in the West Indies. 45 Coffee introduced into England. | RuDdy Teach a Heresy, RuNning *Shares, rt the Indians. RoMans Teach Heresy, RaRe Stage Road, ReaL *Charity, | 1640 1640 1640 1641 1641 |
| 42 The Long Parliament convened. 43 Montreal founded—the Jesuits go to convened. 44 Sugar cane planted in the West Indies. 45 Coffee introduced into England. 46 Strafford beheaded. | RuDdy Teach a Heresy, RuNning *Shares, rt the Indians. RoMans Teach Heresy, RaRe Stage Road, ReaL *Charity, WRetCHed *Charity, | 1640 1640 1641 1641 1641 |
| 42 The Long Parliament convened. 43 Montreal founded—the Jesuits go to convent 44 Sugar cane planted in the West Indies. 45 Coffee introduced into England. 46 Strafford beheaded. 47 Rebellion in Ireland. | RuDdy Teach a Heresy, RuNning *Shares, rt the Indians. RoMans Teach Heresy, RaRe Stage Road, ReaL *Charity, WRetCHed *Charity, RaGged *Charity, | 1640 1640 1641 1641 1641 1641 |
| 42 The Long Parliament convened. 43 Montreal founded—the Jesuits go to convent 44 Sugar cane planted in the West Indies. 45 Coffee introduced into England. 46 Strafford beheaded. 47 Rebellion in Ireland. 48 Civil War in England. | RuDdy Teach a Heresy, RuNning *Shares, rt the Indians. RoMans Teach Heresy, RaRe Stage Road, ReaL *Charity, WRetCHed *Charity, RaGged *Charity, RoVing *Shrine, | 1640 1640 1641 1641 1641 1641 1642 |
| 42 The Long Parliament convened. 43 Montreal founded—the Jesuits go to convent 44 Sugar cane planted in the West Indies. 45 Coffee introduced into England. 46 Strafford beheaded. 47 Rebellion in Ireland. 48 Civil War in England. 49 Sir Isaac Newton born and Galileo died. | RuDdy Teach a Heresy, RuNning *Shares, rt the Indians. RoMans Teach Heresy, RaRe Stage Road, ReaL *Charity, WRetCHed *Charity, RaGged *Charity, RoVing *Shrine, RiPe *Shrine, | 1640 1640 1641 1641 1641 1641 1642 1642 |
| 42 The Long Parliament convened. 43 Montreal founded—the Jesuits go to convent 44 Sugar cane planted in the West Indies. 45 Coffee introduced into England. 46 Strafford beheaded. 47 Rebellion in Ireland. 48 Civil War in England. 49 Sir Isaac Newton born and Galileo died. 50 Union of the four New England colonies. | RuDdy Teach a Heresy, RuNning *Shares, rt the Indians. RoMans Teach Heresy, RaRe Stage Road, ReaL *Charity, WRetCHed *Charity, RaGged *Charity, RoVing *Shrine, RiPe *Shrine, LaZy Dutch Room, | 1640 1640 1641 1641 1641 1641 1642 1642 1643 |
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| 42 The Long Parliament convened. 43 Montreal founded—the Jesuits go to convent 44 Sugar cane planted in the West Indies. 45 Coffee introduced into England. 46 Strafford beheaded. 47 Rebellion in Ireland. 48 Civil War in England. 49 Sir Isaac Newton born and Galileo died. 50 Union of the four New England colonies. 51 Episcopacy abolished in the Commons. 52 Battle of Marston Moor. 53 Battle of Naseby and the Canadian war. 54 Charles I. delivered up by the Scots. | RuDdy Teach a heresy, RuNning *Shares, rt the Indians. RoMans Teach heresy, RaRe Stage road, ReaL *Charity, WRetCHed *Charity, RaGged *Charity, RoVing *Shrine, RiPe *Shrine, LaZy Dutch room, LiTtle *Germ, Lean *Charm, LuMinous *Dutch roll, LaRge *Shark, | 1640 1640 1641 1641 1641 1641 1642 1642 1643 1643 1643 1643 |
| 42 The Long Parliament convened. 43 Montreal founded—the Jesuits go to convent 44 Sugar cane planted in the West Indies. 45 Coffee introduced into England. 46 Strafford beheaded. 47 Rebellion in Ireland. 48 Civil War in England. 49 Sir Isaac Newton born and Galileo died. 50 Union of the four New England colonies. 51 Episcopacy abolished in the Commons. 52 Battle of Marston Moor. 53 Battle of Naseby and the Canadian war. | RuDdy Teach a heresy, RuNning *Shares, rt the Indians. RoMans Teach heresy, RaRe Stage Road, ReaL *Charity, WRetCHed *Charity, RaGged *Charity, RoVing *Shrine, RiPe *Shrine, LaZy Dutch Room, LiTtle *Germ, Lean *Charm, LuMinous *Dutch Roll, | 1640 1640 1641 1641 1641 1641 1642 1642 1643 1643 1643 1643 |

| 56 | Treaty of Westphalia. LaSHed *Sheriff, | 1648 |
|-----|--|------|
| | Charles I. of England beheaded. LucKy *Sharp, | |
| | Montrose executed. LiVely *Joyless, | 1650 |
| | Cape of Good Hope settled by a Dutch colony. LiBerty *Jealous, | 1650 |
| 60 | Cape of Good Hope settled by a Dutch colony. LiBerty *Jealous, Charles a state of Good Hope settled by a Dutch colony. | 1000 |
| | North Carolina settled. CHoSen *Jealous, | 1650 |
| | Battle of Worcester—Cromwell defeats the Scots. SHoT *Shield, | |
| | War between England and Holland. SHiNing DUTCH LION, | |
| 63 | The long Parliament dissolved. GeM *Jolly home, | 1653 |
| 64 | Christiana abdicated the throne of Sweden. CHeeRless *Jewelry, | |
| | Conquest of Jamaica. SHaLlow Dutch Lily, | |
| | Quakers persecuted in Massachusetts. JudGe Dutch eulogy, | |
| | Charles X. conquered John Casimir of Poland. CHalk *Shelf, | |
| | | |
| | | 1000 |
| | Pickering defeats the Spaniards and takes Dunkirk. CHeaP *Shelf, | |
| 70 | The peace of the Pyrennes. CosTly Dutch Soap, | 1659 |
| 71 | The king of Denmark declared absolute and his throne hereditary. | |
| | QuieT Dutch Cheese, | 1660 |
| 72 | New York taken from the Dutch. Cunning Dutch Chair, | 1664 |
| 73 | Great Plague in London—nearly 100,000 victims. | |
| | CoMmon Dutch jewel, | 1665 |
| 74 | Great fire in London—13,000 buildings consumed. | 2000 |
| • | CuRious Dutch judge, | 1666 |
| 75 | Peace of Breda. CLothed Dutch joke, | |
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| | Peace of Aix la Chapelle. KitCHen Dutch joke, | |
| 11 | Battle of Solbay. Quick Dutch Queen, | |
| 78 | The two De Witts murdered by their countrymen. QuiVering *Chicken, | 1672 |
| 79 | King Philip's War in New England. CaPacious *Chuckle, | |
| 80 | Rebellion of Bacon in Virginia. FuZzy Dutch coach, | 1676 |
| 81 | Episcopacy established in Scotland. FooT Dutch copy, | 1679 |
| | William Penn settled Pennsylvania. FiNe Dutch vane, | |
| | Lord Russell and Algernon Sidney put to death. FaMed DUTCH FAME, | |
| 84 | Sobieski defeated the Turks. FaiR Dutch fame, | |
| | James II. sent Sir E. Andros to be governor-general in New England. | 1000 |
| Co | FooLish *Wishful, | 1695 |
| 00 | | |
| | Edict of Nantes revoked. FaSHionable *Wishful, | |
| | Newtonian philosophy promulgated. ViGorous ΤΕΛCΗ α FISH, | 1080 |
| 88 | The Revolution—the people deny the divine right of kings. | |
| - | ViVid *CHIEF FOE, | |
| | Accession of William and Mary. VaPorous *Chief foe, | 1688 |
| 90 | Peter the Great, Czar of Russia. PaSsable Dutch for, | 1689 |
| | Schenectady burnt by the Indians. BeauTiful *Ships, | 1690 |
| | The battle of Boyne, in which the Irish were defeated. BeNding *Ships, | |
| | The French fleet defeated the English. BeMoaning CHEAP DIE, | |
| | The battle of La Hogue—the English victorious. BRight Dutch PIN, | |
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| | Salem Witchcraft. BLunt Dish PAN, Forthquake in Sicily 100 000 persons destroyed. PetCHed Dyman norm. | 1609 |
| | Earthquake in Sicily—100,000 persons destroyed. PatCHed DUTCH POEM, | 1090 |
| | Massacre of Glencoe, in Scotland. BeGging Dutch Poem, | |
| | Rice introduced into South Carolina from Africa. BeComing Teachable, | |
| | The peace of Ryswick. PoPpy Dutch Peak, | |
| 100 | Peter the Great, engaged in ship building. DeCiSive Dutch PEAK, | 1697 |
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| 35 The Natchez Indians massacre the French. sMall talk of a NAP, 172 | |
| | |

| 36 The fort at Crown Point erected. | Mushy Dike in the Mud, 1631 |
|--|--|
| 37 George Washington, and Richard Henry | |
| 38 Georgia settled by James Oglethorpe. | MoVing Big Mummy, 1733 |
| 39 War between France and England. | MaPle Dog Roar, 1744 |
| 40 Treaty of Aix la Chapelle. | RoSy Thick roar, 1748 |
| | |
| 41 New style adopted—Franklin's experime | |
| 40 The great conthaught at Lighan | ReD Thick Lion, 1752 |
| 42 The great earthquake at Lisbon. | Running *Weak and Lowly, 1755 |
| 43 Braddock's defeat. | Roman *Weak and Lowly, 1755 |
| 44 The seven year's war began. | RaRe *Clash, 1756 |
| 45 End of the "old French war." | Real Stoic Charm, 1753 |
| 46 Stamp act passed. | WretCHed Thick Shawl, 1765 |
| 47 Dartmouth college founded. | RaGged Store Chap, 1760 |
| 48 Lightning rods invented. | RoVing Thick ox, 1770 |
| 49 The first partition of Poland. | RiPe *Cockney, 1772 |
| 50 Battle of Bunker Hill. | LaZy *Quickly, 1775 |
| 51 Declaration of Independence. | LiTtle THICK COACH, 1776 |
| 52 Henry Clay born—Burgoyne surrendered | |
| 53 The treason of Arnold. | LuMinous Dog face, 1780 |
| 54 Independence of the United States. | LaRge *Echo of fame, 1783 |
| 55 Federal Constitution adopted by the Stat | |
| 56 The States General of France meet. | LaSHed Thick beef, 1798 |
| 67 Discovery of Galvanism. | LucKy *Copied, 1791 |
| | Lively *Copied, 1791 |
| 58 First railroad in England. | |
| 59 The reign of terror in France. | LiBerty Thick Poem, 1793 |
| 60 Vaccination introduced by Dr. Jenner. | CHoSen *Cow Beef, 1798 |
| 61 General Washington died, aged 67. | ShoT Cap a pie, 1799 |
| 62 Union of England and Ireland. | ShiNing Advised, 1801 |
| 63 Purchase of Louisiana. | GeM Tough sum, 1803 |
| 64 Napoleon crowned emperor of France. | CHeeRless *Officer, 1804 |
| 65 Alexander Hamilton killed by Aaron Bur | r. SHaLlow Adviser, 1804 |
| 66 Battle of Austerlitz and Trafalgar. | JudGe Vessel, 1805 |
| 67 Battle of Jena. | Chalk Tough seige, 1806 |
| 68 Joseph Bonaparte, King of Naples. | SHiVered Tough size, 1806 |
| 69 Battle of Friedland and Treaty of Tilsit. | CHeaP *Physic, 1807 |
| 70 Aaron Burr tried for conspiracy. | CoStly *Physic, 1807 |
| 71 King of Portugal emigrated to Brazil. | QuieT *Physic, 1807 |
| 72 Napoleon married Maria Louisa. | CuNning *Fates, 1810 |
| 73 Holland annexed to France. | CoMmon *FATES, 1810 |
| 74 Revolution in Caraccas. | CuRious *Fates, 1810 |
| 75 Burning of the Richmond Theatre. | |
| | CLothes Defeated, 1811 |
| 76 Campaign in Russia. | KitCHen *FATTEN, 1812 |
| 77 United States declared war against Great | |
| 78 Battles of Lutzen and Leipsic. | QuiVering *Fathom, 1813 |
| 79 Napoleon banished to Elba. | CaPacious Divider, 1814 |
| 80 British took Washington, and burnt the pu | blic buildings. FuZzy Divider, 1814 |
| 81 Battles of New Orleans and Waterloo. | FOOT DEVOUTLY, 1815 |
| 82 American Colonization Society. | FiNe Tough dish, 1816 |
| 83 The Holy Alliance and Congress of Sove | |
| 84 The first steam ship crossed the Atlantic. | |
| 85 Spain ceded Florida to the United States | |
| 86 Revolution in Spain. | FaSHionable Divines, 1820 |
| 87 Death of Napoleon at St. Helena. | ViGorous Divine die, 1821 |
| 88 Death of John Adams and Thomas Jeffer | |
| The state of the s | The state of the s |
| | |

| 8 | 9 | Catholic Relief Bill passed the British House of Commons. | _ |
|----|---|--|------|
| | | VaPorous Stiff NAP, | 1829 |
| 9 | 0 | Duke of Orleans becomes King of the French. PaSsable Stiff Muss, | |
| | | The Reform Bill passes the British Parliament. BeauTiful DEAF MAN, | 1832 |
| 9 | 2 | Slavery abolished in the British Colonies. BeNding STIFF MUMMY, | 1833 |
| 9 | 3 | The Florida War begun. BeMoaning *Family, | 1835 |
| | | Texas declared its independence. Bright *Famish, | 1836 |
| 9 | 5 | Railroad from Manchester to Liverpool opened July 4. | |
| | | BLunt Tough Make, | 1837 |
| 9 | 6 | Napoleon re-interred in Paris. PatCHed Divorce, | |
| 9 | 7 | Contest for the extension of suffrage in Rhode Island. | |
| | | BeGging Tough Riot, | 1841 |
| 9 | 8 | T. W. Dorr elected Governor of Rhode Island. BeFitting TAVERN, | |
| 9 | 9 | The Free Church of Scotland. PoPpy Deform, | |
| 10 | 0 | The Philadelphia Riots. DeCiSive DeVourer, | 1844 |
| | | - | |

N. B. The learner will notice the want of adaptation in the adjective to many of the indicating words. Many of them could be made to read more smoothly, and convey a better and more common meaning, if the termination of the adjective were changed. In the 75th number of the Eighth Series, for example, for the order and date of the Massacre of St. Bartholomew, we have the adjective which belongs to the 75th symbol, Clothes (Basket,) joined to the indicating words, Tall gun; thus:—CLothes Tall gun,—which is wanting in meaning, and would be regarded as an incongruity; but let the pupil, as he memorizes this and all similar cases, so change the adjective as to give it meaning, which he can do by changing the termination of the adjective, and making it read, Clothed Tall gun.

SOVEREIGNS OF ENGLAND.

To study the history of a monarchy is to study the biography of its Sovereigns.

In the application of this system the following thirteen questions can be answered on each Sovereign.

1. Who is the Sovereign answering to any given number which points out the numerical order, as arranged on the left? This is determined by calling to mind the adjective found in the same sentence with his name.

- 2. Which Sovereign may be be of the same name? Example:—Of the Henries there are eight. If I ask for the 40th Sovereign, my 40th adjective is Rosy. I am to ask what name is my 40th adjective associated with in a sentence, I find it to be Henry. But which Henry? If I find my first adjective associated with a second one, the second adjective is to denote which Sovereign of that name. Thus: Rosy and FINE Henry. The first adjectives points out the numerical order of the Sovereign, and the other the given Sovereign of that name. The 40th Sovereign is the 8th Henry.
 - 3. When did he ascend the throne?
 - 4. How long did he reign?
 - 5. In what year did he vacate the throne?
 - 6. To what dynasty did he belong?
 - 7. Who was his predecessor?
 - 8. Who was his successor?
 - 9. In what year did his dynasty begin?
 - 10. In what year did it end?
 - 11. How many Sovereigns were members of his dynasty?
 - 12. How many dynasties were there, and what were their names?
- 13. If any given Sovereign be named, what is his order in the whole nomenclature? Making in all 728 questions which the pupil can answer from the following arrangement, thus:—

Rosy and fine Henry was a hatless boy on a muggy eve.

He came to the throne 1509, reigned 37 years, and by adding the 37 to 1509, we get the answer to the question, What year did he vacate the throne? To what dynasty did he belong? 8th.

Method.—Hatless boy on a muggy eve = 1509—37—8.

FIRST DYNASTY.

OLD SAXON KINGS.

| 1 Stout Egbert. | Fuzzy or semi-foe. | 800 | *38 |
|-----------------------------|------------------------|------|-----|
| 2 New Ethelwolf. | Heavy muff and tip. | 838 | 19 |
| 3 Modern Ethelbald. | Awful comb. | 857 | 3 |
| 4 Rich Ethelbert. | Vicious witch. | 860 | 6 |
| 5 Long and Stout ETHELRED. | Savage judge. | 866 | 6 |
| 6 Chief Alfred the Great. | Heavy cane enough. | 872 | 28 |
| 7 Curious Edward the Elder. | Busy snail. | 900 | 25 |
| 8 Fine Athelstan. | Openly and hotly. | 925 | 15 |
| 9 Bold and Stout Edmond. | Hebrew Sage. | 940 | 06 |
| 10 Dozing Edred. | Peerage as pay. | 946 | 09 |
| 11 Tidy Edwin. | Ball lower. | 955 | 04 |
| 12 Tiny Edgar the Pacific. | Pulpit with Joy. | 959 | 16 |
| 13 Tame Edward the Martyr. | Big and holy hero. | 975 | 04 |
| 14 Daring and New ETHELRED. | Big bay mug. | 979 | 37 |
| 15 Tall and New Edmond. | Odious audacious idea. | 1015 | 01 |

^{*} The last two figures denote the years each of the first dynasty occupied the throne. The first fifteen sovereigns are assigned to the first dynasty.

SECOND DYNASTY.

DANISH KINGS.

| 16 Dutch CANUTE the Great. | Ties a duck to a hot pan. | 1017 | 19†2 |
|----------------------------|---------------------------|------|------|
| 17 Thick and Stout HAROLD. | Does much for money. | 1036 | 03 2 |
| 18 Tough HARDICANUTE. | Ties a map to a nun. | 1039 | 02 2 |
| 1 000 1 | 1 | | |

† The last figure denotes the dynasty to which each remaining sovereign belongs.

THIRD DYNASTY.

NEW SAXON KINGS.

| 19 | Debased Edward the Confessor. | Desired no harm. | 1041 | 24 | 3 |
|----|-------------------------------|-----------------------|------|----|---|
| 20 | Nice and New HAROLD. | Dies in a jolly time. | 1065 | 01 | 3 |

FOURTH DYNASTY.

NORMAN KINGS.

| 21 Noted and Stout WILLIAM the Conqueror. | Witty and sage gentry. | 1066 | 21 | 4 |
|---|---------------------------|------|----|---|
| 22 Know and New WILLIAM Rufus. | Ties a fig to a tame roe. | 1087 | 13 | 4 |
| 23 Numb and Stout HENRY. | Dates of some lyre. | 1100 | 35 | 4 |
| 24 Norman Stephen. | Tight meal dipper. | 1135 | 19 | 4 |

FIFTH DYNASTY.

PLANTAGENET KINGS.

| 25 Null and New Henry. Stately row in a homely hall | 1154 | 35 | 5 |
|--|------|-----|---|
| 26 New shaped and Stout RICHARD the Lion. Tight heavy boot sole. | 1189 | 10 | 5 |
| 27 Naked John. Stout boy bought a quill. | 1199 | 17 | 5 |
| 28 Novel and Modern Henry. Dandy shawl in jail. | 1216 | | |
| 29 Noble and Stout Edward. Tin gun on a mole hill. | 1272 | | |
| 30 Miserly and New Edward. Sweet music to a low soul. | 1327 | | |
| 31 Mighty and Modern ? | 1021 | 20 | J |
| EDWARD. Demoniacal soul. | 1327 | 50 | 5 |
| 32 Mean and New RICHARD. Dame cook knowingly. | 1377 | 22 | 5 |
| SIXTH DYNASTY. | | | |
| LANCASTER BRANCH. | | | |
| 33 Mimic and Rich Henry. Dumpy boy from damage. | 1399 | 13 | 6 |
| | 1412 | | |
| 34 Marble and Long Henry. Tardy notes of joy. | 141% | 10 | U |
| 35 Small and Chief Henry. $\left\{ \begin{array}{l} Die \text{ with the } renown \text{ of a} \\ miffy Jew. \end{array} \right\}$ | 1422 | 38 | 6 |
| milyy Jew. | | | |
| SEVENTH DYNASTY. | | | |
| YORK BRANCH. | | | |
| 36 Missionary and Rich Edward. Dare choose a new mug. | 1460 | 23 | 7 |
| 37 Mock and Long Edward. Drive in a mossy sack. | 1483 | | |
| 38 Moving and Modern Richard. Dear fame of a snake. | 1483 | | |
| | 1100 | 0.2 | |
| EIGHTH DYNASTY. | | | |
| TUDOR BRANCH. | | | |
| 39 Maple and Curious Henry. Dry fallen roof. | 1485 | 24 | 8 |
| 40 Rosy and Fine Henry. Hatless boy in a muggy eve. | 1509 | | 8 |
| 41 Red and Chief Edward. Tall and rash calf. | 1546 | | |
| 42 Ruinous MARY. Dull, lame, and silly wife. | 1553 | | |
| 43 Roman Elizabeth. Dull lava a rare view. | 1558 | | |
| · · | | | |
| NINTH DYNASTY. | | | |
| STUART BRANCH. | | | |
| 44 Rare and Stout James. Tie on a chosen new map. | 1602 | 23 | 9 |
| 45 Real and Stout Charles. Teach a new lean mob. | 1625 | 23 | 9 |
| 46 Wretched Cromwell. Dutch roof at noon for pay. | 1648 | 12 | 9 |
| 47 Ragged and New \ Dashy, joyous and unholy \ | 1660 | OF. | 0 |
| Charles. boy. | 1660 | 20 | 9 |
| 48 Roving and New James. Dish full of samp. | 1685 | 03 | 9 |
| 6 | | | |

TENTH DYNASTY.

NASSAU ORANGE BRANCH.

| 49 Ripe and Modern WILLIAM. | Dodge off as a fighter does. | 1688 | 14 | 10 |
|-----------------------------|------------------------------|------|----|----|
| 50 Lazy Anne. | Take the sound of the notes. | 1702 | 12 | 10 |

ELEVENTH DYNASTY.

| ELEVENTH DYNASTY. | | | | | | | | |
|--|------|----|----|--|--|--|--|--|
| BRUNSWICK HANOVER. | | | | | | | | |
| 51 Little and Stout George. Doctor at the time of death. | 1714 | 13 | 11 | | | | | |
| 52 Lean and New George. { Take a nag home at mid } day. | 1727 | 33 | 11 | | | | | |
| 53 Luminous and Modern Dutch chase with shoes field. 54 Large and Rich George. Divinest statue. | 1760 | 60 | 11 | | | | | |
| 54 Large and Rich George. Divinest statue. | 1820 | 10 | 11 | | | | | |
| 55 Lowly and Rich WILLIAM. Defy the mask with thought. | 1830 | 07 | 11 | | | | | |
| 56 Leighrely Victoria Touch Man kite day | | | | | | | | |

GEOGRAPHY.

In reducing this study to a science, and in placing it within the comprehension of pupils recourse was had to asmuchimagination as is ever demanded in the construction of our mnemonic rules. The parallels of latitude and longitude, the equator, the arctic and antarctic circles, and the tropical lines, the poles, and the axis, are all imaginary lines. With the aid furnished in this way we are enabled to form very correct notions respecting the relative positions of the different parts of the earth.

If therefore, the student of geography has already derived so much assistance from mnemonic or imaginary lines, he should not hesitate to

derive further aid from the same source.

In applying mnemonic rules to geography the subject will be considered under the following heads:

First,—Principles.

Second,—General Geography.
Third,—Particular Geography.
Fourth,—Statistical Geography.

PRINCIPLES.

We will first provide ourselves with two rooms, one directly over the The pupil will, in imagination, place himself in the centre of the floor of the upper room. Each room should be divided into four walls of equal dimensions; but the walls, instead of forming a cornice with a ceiling, should terminate in a focus, like a dome. When the pupil has the upper room clearly formed in his mind, he has the exact plan of the lower room. The floor on which he stands, is the Equator, and the terminus of the two domes or rooms, above and below him, answer to the north and south poles. The pupil will now have a post extend from where he stands in the centre of the floor, to the top of the dome, so down through to the centre of the southern dome below him. This post, now extending from pole to pole, forms the axis—(like extending a wire through an orange.) Thus, the equator, (or floor,) extending through the earth one way, and the axes, (or posts) the other way, the earth, (our geographical rooms,) is divided into four equal parts—into an upper and lower room, and into a right and left room—or into a Northern and Southern, and an Eastern and Western Hemisphere.

The pupil still standing in the centre of the floor by his post or axis,

and with his face to the north, he will have the first wall on his left —(where he should begin to count the walls)—and the second wall before him, the third wall at his right hand, and the fourth wall behind him. On each of these walls the pupil will draw eight perpendicular lines, all commencing on the floor, at equal distances of 600 miles, or 10 degrees, but running nearer together, until they meet in the centre of the domes at the poles. These are called lines of longitude. The pupil will then draw 8 horizontal lines, beginning 10 degrees, or 600 miles from the equator, or floor, running them at equal distances. When these lines are all laid on, crossing each other at right angles, they form nine apartments, each way, making eighty-one Places on

each wall, making in all 324 places in each room.

The pupil should have a school atlas, or map of the world before him, where he will find the rooms and lines all to compare with our plan, with only this difference; he here has in the two rooms the whole globe, or sphere, spread out on the four walls in one view; on the atlas he has the same arrangement presented to him in halves. (Hemispheres.) A further difference is, on the atlas, the pupil is made to imagine that he is on the outside of the globe, while the two Hemispheres are presented to him like an orange cut in halves lengthwise, which makes it exceedingly difficult for him to lay the scene of his study on the outside, while he is actually traversing the inside of one half of it. In our Mnemonic rooms, we place ourselves in the centre of a hollow transparent globe, where every imaginary line, and every object on its surface shows through, and can be seen, surveyed, and studied on the inside.

Being furnished with two Rooms, all that part of the globe north of the Equator (above the floor) we shall transfer to the walls of the Upper Room, and all south of the Equator to the walls of the Lower Room. We shall therefore call the Northern Hemisphere the Upper Room, and the Southern Hemisphere the Lower Room. The Equator we call the Floor, the lines of longitude ladders, and the

lines of latitude steps, placed on the several walls.

Before proceeding further, the meridian must be fixed. This, in English and American maps and charts is reckoned from London, or more correctly from Greenwich, counting the longitude east or west from that place. The French place their meridian in Paris, but they mark also on their maps, longitude from the Faroe islands, (as we do ours from Washington,) from which place all the other European nations, commence theirs. By this means, the longitude which is laid down on a continental map is comprehended by the French, and the French maps are understood by all other continental geographers. Our maps are intelligible only where the English language is studied and spoken.

But in the application of these principles to general geography, as a meridian can be reckoned from any point on the equator, we shall place the meridian twenty degrees west of Greenwich, which brings it directly on the centre, between the two hemispheres. We make Greenwich then twenty degrees, and the Faroe Islands between ten and fifteen degrees east Longitude. The only point of land which marks our meridian is Iceland. But those who are familiar with the map of the world, will find it more convenient to regard the centre line between the two hemispheres as our meridian, and place the digit 0 which now marks the meridian at Greenwich, directly in the centre, where 20° now stands.

This arrangement of the meridian divides the lines of latitude and longitude equally between the four quarters of the two hemispheres, dividing the world into two equal parts, which brings 180 deg., or one half of the whole circle, on the extreme edge of each hemisphere. Whereas now the meridian at Greenwich being 20 deg. east of the dividing line of the hemispheres, instead of causing half (180 deg.) the circle (360 deg.) to terminate at the extreme edge of the eastern, it carries it 20 deg. from the edge of the western hemisphere, which is not unfrequently a source of much perplexity, especially to the mind of a new student in geography.

Making *Iceland*, or the point on the equator where the globe is divided into two hemispheres, from which we shall reckon longitude, we will suppose a place to be in 42 deg. north latitude, and 309 of longitude, (going east) from Iceland in one direction round the globe; on what wall, ladder, step, and degree, or square, (for it will be remembered that places made by the ladders and steps occupy ten degrees of latitude and longitude) is this place to be found? The answer is contained in the following

METHOD FOR DETERMINING GEOGRAPHICAL LOCALITIES.

We must take the 309, and cut off the unit figure, thus, 30,9, and we have 30 left. There being nine places of latitude on each wall, we divide 30 by 9, which will be contained in it three times, with a remainder; But as 30 exceeds 3 times 9, our place must be found on the fourth wall. The remainder being 3, determines the ladder on the fourth wall. To find the step, we must cut off the unit figure from the degrees of latitude, thus, 4,2, and the 4 determines the step up from the equator. Having found the wall, ladder, and step, we have found the place where the city is located, and are necessarily within ten degrees of it. Let us now approach within one degree, or within one fifth of a degree. This is pointed out by the

unit figures cut off from the degrees of latitude and longitude, 4,2 and 30,9. It is 2 degrees up towards the next higher step, and 9 degrees in towards the next ladder. Reaching this point, we are on the last degree. To get the miles it can be divided and subdivided into minutes and seconds. But this is not often necessary to serve any prac-

tical purpose.

The city, then, which we shall find in 42 N. L., and 109 W. L., is Boston. It is in the upper room, because it is above the floor, or north of the equator; It is found on the fourth wall, because its place is a higher number than the 27 places on the 3 walls; it is on the third ladder, which is determined by the remaining number after dividing 30 by 9; it is on the 4th step, which is determined by the figure left after cutting off the unit figure from (4,2) the degrees of latitude; it is 2 degrees up, which is determined by the 2 cut off from the latitude;

it is 9 degrees in by the 9 cut off from the longitude.

If we were to read that an engagement had taken place between two ships, or that a vessel had been stove in by a whale in 324 deg. east longitude, 36 deg. south latitude, how shall we find the precise location of this event? We know that south latitude is in the lower room. To find the wall, ladder, step, and tenths of the place, we proceed as in the foregoing example. Cut off the unit figure from the longitude, 32,4; then divide the left hand figures 32 by 9, and 5 is the remainder—5th ladder, on the fourth wall, and 3,6, third step, counting down from the equator, and 3 tenths of longitude in to the place, and 6 tenths of latitude. This event therefore took place near the mouth of the Rio de la Plata on the fourth wall, fifth ladder, and third step of the southern room.

RULE,

For finding the Longitude of a place, from Iceland, or the centre of the Hemispheres, when its Longitude from Greenwich is known.

If the place be east of Greenwich, add 20 deg. If it be west of Greenwich, drop 20 deg. If the place be less than 20 deg. east of Iceland, as in the case of Madrid and Edinburg, which are 3 deg. west of Greenwich, this arrangement brings them into 17 deg. east longitude.

RULE,

To find the Longitude of a place on the Sphere, when its Longitude is known on the Western Hemisphere, from Greenwich and from Iceland.

New York is 40 deg. N. L. and 74 deg. W. L. from Greenwich, and 54 from Iceland. Now subtract 74 deg. from 360 deg., (the circle of the earth,) and it gives the longitude of New York, 286 deg.,

as you go east from Greenwich round the globe. By the same rule, if 54, (the longitude of New York west from Iceland), be subtracted from 360 deg. it gives 306, deg. of longitude.

By studying these rules the pupil will not only familiarize the figure of the earth, but will be able to determine from an indicating word three longitudes for every place on the western hemisphere, and two longitudes for every place on the eastern hemisphere. Example—The indicating words for Boston from Greenwich, are worn coat—42 deg. N. L., 71 deg. W. L.,—51 deg W. L. from Iceland, and 309 deg. of longitude round the globe. It is in the upper room, 4th wall, 3d ladder, 3d step, 9 tenths in and 2 tenths up. The learner should compare every step of his way through these principles with a school atlas.

GENERAL GEOGRAPHY.

As this section has much more to do with symbolizing than with memorizing figures, were it not for taking it out of its proper connection with the subject of Geography, it would be placed in the Second Part, where topics, rather than figures, are to be remembered. The pupil must make himself familiar with the theory of locating the symbols, in order to succeed with this chapter. In doing so, the rooms, places and symbols, found in the Second Part should be familiarized.

What we learn on maps and globes is soon forgotten, there being no connecting medium to bring the different countries to our recollection. Suppose we are looking at a globe, and fix our eyes on England, we cannot see its antipodes; places can be seen only in one direction. The Chinese, when shown a map of the world, said, Why put us up in a corner? we are in the centre. In fact, the centre is everywhere, and the whole circumference is equally distant from us, wherever we may be.

The four quarters of the northern hemisphere being arranged on the 4 walls when we are in a room, we can in an instant see every part of the hemisphere. On the first wall will be a part of the Atlantic Ocean, the whole of Europe, and a great part of Africa, and a

small part of Asia.

On the second wall will be found the larger part of Asia, and a large

proportion of the North Pacific Ocean.

On the third wall there is a continuance of the Northern Pacific Ocean, and a part of North America.

On the *fourth* wall there is the remainder of North America, part of South America, the West Indies, and a great part of the Atlantic Ocean. This completes the northern hemisphere, and occupies the *first*, or upper room.

In the second, or lower room, on the first wall, we have a part of the Southern Atlantic Ocean, a part of Africa and the Indian Ocean.

The second wall is occupied by the remainder of the Indian Ocean, the Indian Archipelago, and New Holland.

The third wall contains the Southern Pacific Ocean, and the South Sea Islands.

The fourth wall has nearly all of South America. Thus there are in the Northern room the whole continent of Europe and Asia, the whole of North, and a part of South America. The lower or southern room contains the remainder of Africa and South America, the Asiatic Islands, Polynesia and Australia.

If I am in a room where I can stand with my face to the north, the first wall will be on my left. This wall is divided into *places*, by the eight lines of latitude and longitude, crossing each other.

The 1st place, made by the 1st ladder and 1st step, and numbered 11, is covered almost entirely with water, being so much of the Atlantic Ocean. A small part of Africa is however discovered; in this part Sierra Leone and Monrovia are situated.

The 11th symbol is Tidy Quail, which we must locate in both these places, by seeing a flock of quails fly up from Sierra Leone, and light down in Monrovia.

The 2d place is made by the 1st ladder and 2d step, and will be numbered 12, the land occupying it is Senegambia and Cape Verd, on which we must see a *Tiny Quack* traveling to heal the sick.

The 3d place is numbered 13, and embraces part of the great desert of Sahara, and the Canary Islands, on which the pupil will locate the 13th symbol, *Tame Parrot*. By an ingenious tact of his own mind, the location and the association will become exceedingly impressive.

The 4th place embraces the Island of Madeira, on which we must locate the Daring Lion.

Place numbered 15 is covered with water. The symbol is Tall Broom, and no association is required.

Place 16 takes in a very small portion of Ireland, to be associated with *Dutch Barrel*.

Place 17, is a part of Iceland, on which we are to locate a Decorated Church.

Place 18, a part of Greenland. Tough Jug.

Place 19, Arctic Ocean. Tabby Cat.

The place made by the 2nd ladder and 1st step, will be numbered 21, in which we find a part of Liberia, and the mountains of the Moon, on which we are to locate the *Noted Bear*.

Place 22, Desert of Sahara and Soudan. Known Bottle.

Place 23, the Great Desert and a part of Morocco. Nameless Brush. Place 24, Morocco, Straits of Gibraltar, Portugal and Spain. Narrow Musket.

Place 25, a part of Spain, Portugal, France and the Bay of Biscay. Null Horn.

26. Great Britain and Ireland. New Shaped Loom.27. Shetland and Faroe Islands. Naked Ladder.

28 and 29. Arctic Ocean. Novel Goldfish.

The place made by 3d ladder and 1st step, numbered 31, embraces the Gulf of Guinea—parts of Guinea—Mountains of the Moon. Metalic Spoon.

32. Parts of Soudan and the Great Desert. Mean Guitar.

33. The Great Desert of Sahara. Mimic Wheel.

34. Parts of the Great Desert, Barbary and the Mediterranean Sea. Marble Bench.

35. France. Small Cloak.

36. Parts of Prussia, Denmark and the North Sea. Missionary Man.

37. Part of Norway. Mock Diadem.

38 and 39. Arctic Ocean. Moving Tumbler.

41. Part of Guinea and Central Africa. Red Trumpet.

42. Part of Central Africa and the Great Desert. Running Pony.

43. Great Desert. Roman Groom.44. Island of Sicily. Rare Spool.

45. Gulf of Venice—parts of Italy and Austria. Real Shoe.

- 46. Parts of the Baltic Sea, Prussia and Sweden. Wretched Fence. 47. Parts of the Baltic Sea, Norway, Sweden, and Arctic Ocean.
- Ragged Net.
 48. Spitzbergen. Roving Army.
 49. Arctic Ocean. Ripe Oyster.

51. Central Africa. Little Watch.

52. Parts of Nubia, Central Africa and the Great Desert. Lean Elephant.

53. Parts of the Great Desert, Barbary and Egypt. Luminous Lamp.

54. Mediterranean Sea, Barbary. Large Drum.
55. Part of Turkey and Austria. Loyal Tour.

56. Part of Russia—Europe. Lashed up Coach.

57. Part of Russia, Sweden and Norway. Lucky Lark.

58. Norway—Russia. Lively Fife.59. Arctic Ocean. Liberty Cap.

- 61. Central Africa—Abyssinia. Shot Eagle.
- 62. Nubia—Abyssinia. Shining Blue-Jay.
- 63. Nubia—Egypt—Red Sea—Arabia. Gem Book.
- 64. Turkey—Arabia. Cheerless Nun.
- 65. Black Sea, Turkey, Russia. Shallow Freedom.
- 66. Russia in Europe. Judge Moor.
- 67. Russia—White Sea. Chalk Pail.
- 68, 69. Arctic Ocean. Shivered Calico.
- 71. Eastern Africa—Indian Oeean. Quiet Tomb.
- 72. Abyssinia, Red Sea and Arabia. Cunning Squirrel.
- 73. Arabia. Common Deluge.74. Persia—Turkey in Asia. Queen Mouse.
- 75, 76, 77. Russia in Europe and Asia. Clothes Basket.
- 78, 79. Arctic Ocean. Quivering Lily.
- 81. Indian Ocean—Eastern Africa. Foot Organ.
- 82. Arabia—Indian Ocean. Fancy Comb.
- 73. Persia, Persian Gulf, Arabia. Famed Mount Tabor.
- 84. Persia—Tartary—Caspian Sea. Fair Jew.
- 85, 86. Tartary—Russia. Foolish Peacock.
- Vigorous Crane. 87. Russia.
- 88. Nova Zembla. Vivid Water.
- 89. Arctic Ocean. Vaporous Umbrella.
- 91, 92. Indian Ocean. Beautiful Rose.
- 93. Indian Ocean—Beloochistan. Bending Grain.
- 94. Affghanistan—Tartary. Bemoaning Lamb.
- 95. Tartary. Bright Fire. 96. Tartary—Russia. Blunt Awl.
- 97. Russia. Patched Rug.
- 98. Russia—Nova Zembla. Begging Widow.
- 99. Arctic Ocean. Befitting Crown.

Thus we have marked the most prominent features of each of the 81 places on the first wall. Should the pupil now proceed in the same manner over the three remaining walls of the northern hemisphere, and associate the principal country, city, sea, or lake, with the symbol that corresponds in number to the place, he will find himself in possession of a very good knowledge of General Geography.

In distinction from this mode of studying Geography, we shall next introduce particular Geography.

LATITUDES AND LONGITUDES.

OF SOME OF THE

PRINCIPAL CITIES AND TOWNS IN THE UNITED STATES.

From all the following indicating words two figures should be assigned to the latitude, they being expressed sometimes by one figure, as for example, Paris; and sometimes with three figures, as Pekin, in China. These indicating words are to be made into a sentence, with the name of the place whose latitude and longitude they indicate.

| The Longitudes are from Greenwich. | | | LAT. | LONG. |
|------------------------------------|-----------------------|-------------------------|-----------------|-------|
| 1 | Albany, Capital N. Y. | RAINY WIGWAM, | N. 42 | W. 73 |
| | Annapolis, Cap. Md. | New Humbug show, | 39 | 76 |
| | Augusta, Ga. | Modern MAIM THE FEET, | 33 | 81 |
| | Augusta, Cap. Me. | Rich RARE CHAP, | 44 | 69 |
| | Baltimore, Md. | Long HEMPY CASH, | 39 | 76 |
| | Bangor, Me. | Chief RARE SHOP, | 44 | 69 |
| | Boston, Mass. | Curious WORN COAT, | $\overline{42}$ | 71 |
| | Brooklyn, N. Y. | Fine Rosy HICKORY, | 40 | 74 |
| | Buffalo, N. Y. | Bold RUNAWAY CUB, | 42 | 79 |
| | Burlington, V. T. | Dozing RARE GAME, | 44 | 73 |
| | Charleston, S. C. | Tidy Human voice, | 32 | 80 |
| | Charlestown, Mass. | Tiny WORN COAT, | 42 | 71 |
| | Chicago, Ill. | Tame WORN FIFE, | 42 | 88 |
| | Cincinnati, O. | Daring HEMP WEAVER, | 39 | 84 |
| | Columbia, S. C. | Tall MERE FIGHT, | 34 | 81 |
| | Columbus, O. | Dutch HEMPY FAME, | 39 | 83 |
| | Concord, N. H. | Decorated Rome and God, | 43 | 71 |
| | Detroit, Mich. | Tough RAINY or FUMY, | 42 | 83 |
| | Dover, Del. | Tabby MAYBUG or OWL, | 39 | 75 |
| | Fishkill, N.Y. | Nice READY CURE, | 41 | 74 |
| | Frankfort, Ky. | Noted Muff of fur, | 38 | 84 |
| | Fredericton, N. B. | Known RICH JUDGE, | 46 | 66 |
| | Harrisburg, Pa. | Nameless RISE QUICK, | 40 | 77 |
| | Hartford, Ct. | Narrow Red Gum, | 41 | 73 |
| | Indianapolis, Ind. | Null Mob of Fish, | 39 | 86 |
| | Jackson, Miss. | New shaped Money Base, | 32 | 90 |
| | Jefferson, Mo. | Naked Muff or Piano, | 38 | 92 |
| | Key West, Florida, | Novel NARROW FAME, | 24 | 83 |
| | Kingston, N. C. | Noble RARE CASH, | 44 | 76 |
| | Little Rock, Ark. | Mossy Marrow Bone, | 34 | 92 |
| | Lockport, N. Y. | Metallic Rum cup, | 43 | 79 |
| | Lowell, Mass. | Mean Worn COAT, | 42 | 71 |
| | Louisville, Ky. | Mimic MIFFY FELLOW, | 38 | 85 |
| | Milledgeville, Ga. | Marble Main for fame, | 33 | 83 |
| | Mobile, Ala. | Small Amusive wife, | 30 | 88 |
| 36 | Montreal, L. C. | Missionary Rich comb, | 46 | 73 |
| | Montpelier, Vt. | Mock RARE WAGON, | 44 | 72 |
| 38 | Nashville, Tenn. | Moving Much fish, | 36 | 86 |
| 39 | Natchez, Miss. | Maple MAY DAY BEAUTY, | 31 | 91 |
| | Nauvoo, Ill. | Rose Worse Habit, | 40 | 91 |
| | Newark, N. J. | Red Rosy Hickory, | 40 | 74 |
| | | | | |

| 42 New Bedford, Mass. | Running WORTHY CAUSE, | N. 41 | W. 70 |
|-----------------------|--------------------------|-------|-------|
| 43 New Haven, Ct. | Roman WORTHY GAME, | 41 | 73 |
| 44 New Orleans, La. | Rave NEW BABY HOUSE, | 29 | 90 |
| 45 Newport, R. I, | Real RED COAT, | 41 | 71 |
| 46 New York, N. Y. | Wretched Rosy Hickory, | 40 | 74 |
| 47 Norfolk, Va. | Ragged MAKE a COACH, | 37 | 76 |
| 48 Philadelphia, Pa. | Roving Humbug wholly, | 40 | 75 |
| 49 Pittsburg, Pa. | Ripe RAISE a VOICE, | 40 | 80 |
| 50 Plymouth, Mass. | Lazy Rude cause, | 41 | 70 |
| 51 Portland, Me. | Little Army of GEESE, | 43 | 70 |
| 52 Portsmouth, N. H. | Lean Army of Geese, | 43 | 70 |
| 53 Providence, R. I. | Luminous RED COAT, | 41 | 71 |
| 54 Quebec, L. C. | Large IRISH COAT, | 46 | . 71 |
| 55 Raleigh, N. C. | Loyal MILL COFFEE, | 35 | - 78 |
| 56 Richmond, Va. | Lashed up Mica or cocoa, | 37. | 77 |
| 57 Rochester, N. Y. | Lucky WARM COFFEE, | 43 | 78 |
| 58 Salem, Mass. | Lively WORN COAT, | 42 | . 71 |
| 59 Springfield, Ill. | Liberty Mob on HALF PAY, | 39 | 89 |
| 60 St. Louis, Mo. | Chosen MIFFY BOYS, | 38 | 90 |
| 61 Tallahassee, Fa. | Shot WHIMSY AFFAIR, | 30 | 84 |
| 62 Toronto, U. C. | Shining RAW MAGPIE, | 43 | 79 |
| 63 Trenton, N. J. | Gem Rosy Hickory, | 40 | 74 |
| 64 Troy, N. Y. | Cheerless RAINY WIGWAM, | 42 | 73 |
| 65 Tuscaloosa, Ala. | Shallow MAMMA in VOGUE, | 33 | 87 |
| 66 Utica, N. Y. | Judge RAW MAGPIE, | 43 | 79 |
| 67 Washington, D. C. | Chalk MIFFY CASK, | 38 | 77 |
| 68 Wilmington, Del. | Shivered MAY BUG or OWL, | 39 | 75 |
| | | | |

IMPORTANT CITIES AND TOWNS ON THE GLOBE.

| -1 | A G : | TATE OF CO. | AT OA | T3 00 |
|----|---------------------------------|---------------------------|-------|-------|
| | Acre, Syria, | Myrrh for α mummy, | N. 34 | E. 33 |
| | Adrianople, Turkey, E. | New RIDE to ENJOY. | 41 | . 26 |
| | Alexandria, Egypt, | Modern Mighty Muse, | 31 | 30 |
| 4 | Algiers, Cap. Algiers, | Rich Much at Home, | 36 | 3 |
| 5 | Amsterdam, Cap. Holland, | Long Lean Hero, | 52 | 4 |
| | Antwerp, Belgium, | Chief LEADER, | 51 | 4 |
| | Astrachan, Cap. Asiatic Russia, | Curious Rich and Rough, | 46 | 48 |
| 8 | Athens, Cap. Greece, | Fine MUFFIN or HAM, | 38 | 23 |
| | Bagdad, Turkey, A. | Bold MUMMY RARE, | 33 | . 44 |
| | Bankok, Chin India, | Dozing TAME DISEASE, | 13 | 100 |
| | Barcelona, Spain, | Tidy READY SIGN, | 41 | 2 |
| | Batavia, Java, | Tidy SHAD with SAGE, | S. 6 | 106 |
| | Berlin, Cap. Prussia, | Tame Holy Anathema, | 52 | 13 |
| | Birmingham, Eng. | Daring LINEN, | 52 | W. 2 |
| 15 | Bombay, Hindoostan, | Tall Top of the comb, | 19 | 73 |
| | Bordeaux, France, | Dutch REAR an ICEHOUSE, | 44 | 00 |
| | Breslaw, Prussia, | Decorated WILD DOG, | 51 | 17 |
| | Bristol, England, | Tough LADEN, | | W. 2 |
| | Brussels, Cap. Belgium, | Tabby LAZY HOUR, | 50 | 4 |
| | Buenos Ayres, Cap. B Ayres, | Nice MERRY LIFE, | S. 34 | W. 58 |
| | Cadiz, Spain, | Noted MATCH a JEW, | 36 | W. 6 |
| | Cairo, Cap. Egypt, | Known Mass of MUD, | 30 | 31 |
| | Calcutta, Cap. Hindoostan, | | 22 | 84 |
| | | Nameless NENUPHAR, | | |
| | Canton, China, | Narrow Enemy in the DAY I | | 113 |
| 20 | Capetown, Cap. South Africa, | Null MAIM a DOVE, | S. 33 | 18 |

| 26 Cologne, Prussia, 27 Constantinople, Cap. Turkey, E. *Awked Worth's Nephels**, 28 Copenhagen, Cap. Denmark, 29 Cork, Ireland, 30 Damascus, Syria, 31 Dresden, Saxony, 32 Dublin, Cap. Ireland, 33 Edinburg, Cap. Scotland, 34 Florence, Cap. Tuscany, 35 Frankfort, Germany, 36 Galveston, Cap. Texas, 37 Geneva, Switzerland, 38 Genoa, Cap. Italy, 39 Ghent, Belgium, 40 Gibraltar, Spain, 41 Glasgow, Scotland, 42 Halifax, Nova Scotia, 43 Hamburg, Germany, 44 Havana, Cuba, 45 Ispahan, Persia, 46 Jeddo, Cap. Japan, 47 Jerusalem, Syria, 48 Kingston, Jamaica, W. I. 49 Kingston, Jamaica, W. I. 40 Kingston, Jamaica, W. I. 40 Kingston, Jamaica, W. I. 41 Kingston, Jamaica, W. I. 42 Halifax, Pova Scotia, 43 Hamburg, Germany, 44 Havana, Cuba, 45 Ispahan, Persia, 46 Jeddo, Cap. Japan, 47 Jerusalem, Syria, 48 Kingston, Jamaica, W. I. 49 Kingston, Jamaica, W. I. 49 Kingston, Jamaica, W. I. 40 Kingston, Jamaica, W. I. 41 Cose Lame and San, 41 W. 76 42 Lisben, Cap. Drotugal, 43 Liberty Mall, Mall, Jamber, 44 Liblowed Wave, 45 Ispahan, Persia, 46 Jeddo, Cap. Japan, 47 Jerusalem, Syria, 48 Kingston, Jamaica, W. I. 49 Kingston, Jamaica, W. I. 49 Kingston, Jamaica, W. I. 40 Kingston, Jamaica, W. I. 41 Cose Lame and San, 41 W. 76 42 Lieden, Spain, 43 Liberty Lilumine, 44 W. 76 45 Leyons, France, 45 Machas, Hindoostan, 45 London, Cap. England, 46 Lilumine, 47 Common Sare May Day Str. 47 Rio Janeiro, Cap. Brazil, 48 Rome, Italy, 49 Coporto, Portugal, 40 Christ, Prance, 40 Moreco, Cap. Morocco, 41 Marseilles, France, 41 Cose Lame and San, 41 Liberty is ontous, 41 Liberty is ontous, 42 Lilumine, 43 Liberty Lilumine, 44 W. 76 45 Leghor, Tarke, 45 Leghorn, Sicily, 46 Morocco, Cap. Morocco, 47 Roberty Lilumine, 48 Rome, Italy, 49 Coporto, Cap. Brazil, 49 Roberty Lilumine, 40 Costly Morocco, 41 Core Cook, 41 Core Cook, 41 Core Cook, 41 Core Cook, 42 Core Cook, 43 Core Cook, 44 W. 6 | - | ~ 1 | | | | |
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| 28 Copenhagen, Cap. Denmark, 29 Cork, Ireland, 30 Damascus, Syria, 31 Dresden, Saxony, 33 36 36 37 20 Dublin, Cap. Ireland, 32 Edinburg, Cap. Scotland, 34 Florence, Cap. Tuscany, 36 Galveston, Cap. Texas, 37 Geneva, Switzerland, 38 Genoa, Cap. Italy, 30 Gibraltar, Spain, 40 Gibraltar, Spain, 41 Glasgow, Scotland, 42 Halitax, Nova Scotland, 43 Halitax, Nova Scotland, 44 Harbara, Cuba, 44 Harbara, Cuba, 45 Ispahan, Persia, 46 Jeddo, Cap. Japan, 47 Jerusalem, Syria, 48 Kingston, Japan, 48 Kingston, Japan, 48 Kingston, Japan, 49 Krietched Mall. Damp., 35 139 Kretched Mall. Damp., 36 Kretched Mall. Damp., 36 Kretched Mall. Damp., 36 Kretched Mall. Dam | | | | | | |
| 29 Cork, Ireland, 30 Damascus, Syrin, 31 Dresden, Saxony, 32 Dublin, Cap, Ireland, 33 Edinburg, Cap, Scotland, 34 Florence, Cap, Tuscany, 35 Frankfort, Germany, 36 Galveston, Cap, Texas, 37 Geneva, Switzerland, 38 Genova, Switzerland, 39 Ghent, Belgium, 40 Gibraltar, Spain, 41 Glasgow, Scotland, 42 Halifax, Nova Scotia, 43 Hamburg, Germany, 44 Havana, Cuba, 45 Ispahan, Persia, 46 Jeddo, Cap, Japan, 47 Jerusalem, Syria, 48 Kingston, Jamaica, W. I. 49 Kingston, Jamaica, W. I. 49 Kingston, Jamaica, 51 Leghorn, Italy, 52 Lima, Cap, N. Peru, 53 W. 6 Moxing Rare sofa, 54 W. 55 W. 4 Moxing Rare sofa, 55 W. 4 Moxing Rare sofa, 56 Jeogland, 57 Jerusalem, Syria, 58 Kingston, Jamaica, 50 Leeds, England, 51 Leghorn, Italy, 52 Lima, Cap, N. Peru, 53 Lisbon, Cap, Portugal, 54 Liverpool, England, 55 London, Cap, England, 56 Lyons, France, 67 Madras, Hindoostan, 58 Madrid, Cap, Spain, 59 Manchester, England, 60 Manilla, Italy, 61 Morocco, Cap, Mexico, 63 Milan, Italy, 64 Morocco, Cap, Mexico, 65 Moscow, Russia, E. 66 Muscat, Arabia, 67 Nankin, China, 68 Naples, Cap, Italy, 69 Oporto, Portugal, 70 Palermo, Sicily, 71 Paris, France, 72 Pekin, Cap, China, 73 Pernambuco, Brazil, 74 Prague, Austria, 75 Quito, Cap, Equador, 76 Riga, Russia, 77 Rio Janeiro, Cap, Brazil, 78 Rome, Italy, 79 Rotterdam, Holland, 79 Rotterdam, Holland, 79 Rotterdam, Holland, 79 Rotterdam, Holland, | | | | | | |
| 30 Damascus, Syria, 31 Dresden, Saxony, 32 Dublin, Cap. Ireland, 33 Edinburg, Cap. Scotland, 34 Florence, Cap. Tuscany, 35 Frankfort, Germany, 36 Galveston, Cap. Texas, 37 Geneva, Switzerland, 38 Genoa, Cap. Italy, 39 Ghent, Belgium, 40 Gibraltar, Spain, 41 Glasgow, Scotland, 41 Halitax, Nova Scotla, 43 Hamburg, Germany, 44 Havana, Cuba, 45 Ispahan, Persia, 46 Jeddo, Cap. Japan, 47 Jerusalem, Syria, 48 Kingston, Jamaica, W. I. 49 Kingston, Upper Canada, 51 Leeds, England, 51 Leghorn, Italy, 52 Lima, Cap. N. Peru, 53 Lisbon, Cap. Portugal, 54 Liverpool, England, 55 London, Cap. England, 60 Manilla, Phillipine Islands, 61 Marseilles, France, 62 Mexico, Cap. Mexico, 63 Milan, Italy, 64 Morocco, Cap. Mexico, 63 Milan, Italy, 64 Morocco, Cap. Mexico, 63 Milan, Italy, 64 Morocco, Cap. Mexico, 63 Milan, Italy, 64 Prague, Austria, 76 Quito, Cap. Equador, 77 Rio Janeiro, Cap. Brazil, 77 Rocher Mark Press Laber and Longer Labors, Capacious Letter, 51 Adallowed Dome, 51 Mexile Well Lillowed Millowed | | | | 5 | 55 | |
| 31 Dresden, Saxony, Metallic Hallowed Dome, 51 13 13 20 20 20 20 20 20 20 2 | 29 | Cork, Ireland, | Noble HALLOWED WAVE, | 5 | 51 | W. 8 |
| 31 Dresden, Saxony, Metallic Hallowed Dome, 51 13 13 14 15 16 16 16 16 16 16 16 | 30 | Damascus, Syria, | Mossy My Home Much, | 5 | 33 | 36 |
| 32 Dublin, Cap. Ireland, 33 Edinburg, Cap. Scotland, 34 Florence, Cap. Tuscany, 35 Frankfort, Germany, 36 Galveston, Cap. Texas, 37 Geneva, Switzerland, 38 Genoa, Cap. Italy, 39 Ghent, Belgium, 40 Gibraltar, Spain, 41 Glasgow, Scotland, 42 Halifax, Nova Scotla, 43 Hamburg, Germany, 44 Havans, Cuba, 45 Ispahan, Persia, 46 Jeddo, Cap. Japan, 47 Jerusalem, Syria, 48 Kingston, Japanica, W. I. 49 Kingston, Upper Canada, 51 Leeds, England, 51 Leeds, England, 51 Lima, Cap. N. Peru, 52 Lima, Cap. N. Peru, 53 Lisbon, Cap. Portugal, 54 Liverpool, England, 55 London, Cap. England, 60 Manilla, Phillipine Islands, 61 Marseilles, France, 62 Mexico, Cap. Mexico, 63 Milan, Italy, 64 Morocco, Cap. Mexico, 65 Moscow, Russia, E. 66 Muscat, Arabia, 67 Nankin, China, 68 Naples, Cap. Italy, 69 Oporto, Portugal, 76 Palermo, Sicily, 77 Palermo, Sicily, 77 Rio Janeiro, Cap. Brazil, 78 Rome, Italy, 79 Rotterdam, Holland, 78 Parise, Russia, 79 Rotterdam, Holland, 70 Palermon, Cap. Brazil, 78 Rome, Italy, 79 Rotterdam, Holland, 70 Rotterdam, Hol | | | | | 51 | 13 |
| 33 Edinburg, Cap. Tuscany, 34 Florence, Cap. Tuscany, 35 Frankfort, Germany, 36 Galveston, Cap. Texas, 37 Geneva, Switzerland, 38 Genoa, Cap. Italy, 39 Ghent, Belgium, 40 Gibraltar, Spain, 41 Glasgow, Scotland, 42 Halifax, Nova Scotia, 43 Hamburg, Germany, 44 Havana, Cuba, 45 Ispahan, Persia, 46 Jeddo, Cap. Japan, 47 Jerusalem, Syria, 48 Kingston, Jamaica, W. I. 49 Kingston, Jamaica, W. I. 49 Kingston, Jupper Canada, 50 Leeds, England, 51 Leeghor, Italy, 52 Lima, Cap. N. Peru, 53 Lisbon, Cap. Portugal, 54 Liverpool, England, 55 London, Cap. England, 56 Lyons, France, 57 Madras, Hindoostan, 58 Madrid, Cap. Spain, 59 Manchester, England, 60 Manilla, Phillipine Islands, 61 Marseilles, France, 62 Mexico, Cap. Morocco, 63 Milan, Italy, 64 Morocco, Cap. Morocco, 65 Moscow, Russia, E. 66 Muscat, Arabia, 67 Nankin, China, 67 Palermo, Sicily, 68 Rome, Italy, 69 Oporto, Portugal, 79 Palermo, Sicily, 77 Rio Janeiro, Cap. Brazil, 78 Rome, Italy, 79 Rotterdam, Holland, 60 Kap. Lap. 61 Marseilles, France, 62 Mexico, Cap. Morocco, 63 Milan, Italy, 64 Morocco, Cap. Morocco, 65 Moscow, Russia, E. 66 Muscat, Arabia, 67 Rome, Italy, 68 Rome, Italy, 69 Rome, Italy, 69 Rome, Cap. China, 78 Rome, Italy, 79 Rotterdam, Holland, 60 Kingston, Daneiro, 61 Kingston, Jeneta, 61 Marseilles, France, 62 Mexico, 63 Milan, Italy, 64 Morocco, Cap. Morocco, 65 Moscow, Russia, E. 66 Muscat, Arabia, 67 Rome, Italy, 68 Rome, Italy, 69 Rome, Italy, 69 Oporto, Portugal, 60 Kingston, Cap. Brazil, 60 Kingston, Cap. Brazil, 61 Marseilles, France, 62 Mexico, 63 Rome, Italy, 64 Morocco, Cap. Brazil, 65 Rome, Italy, 66 Morocco, Cap. Brazil, 67 Rome, Italy, 68 Rome, Italy, 69 Oporto, Cap. Brazil, 69 Rome, Italy, 60 Morocco, Cap. Brazil, 60 Morocco, Cap. Brazil, 61 Marseilles, France, 61 Marseilles, France, 62 Mexico, 63 Milan, Italy, 64 Morocco, Cap. Brazil, 65 Rome, Italy, 66 Marilla, Russia, 67 Rome, Italy, 68 Rome, Italy, 69 Oporto, Cap. Brazil, 60 Marilla, Russia, 60 Marilla, | | | | E. | 53 | |
| 34 Florence, Cap. Tuscany, Spirals frankfort, Germany, Small Always Safe, 56 Red Galveston, Cap. Texas, Missionary Unhappy Blow, 29 W. 95 Reneva, Switzerland, Mock Rich Sage, 46 6 8 Genova, Switzerland, Mock Rich Sage, 46 8 6 6 Missionary Unhappy Blow, 29 W. 95 Missionary Unhappy Blow, 36 Missionary Unhappy Blow, 37 Missionary Unhappy Blow, 37 Missionary Unhappy Blow, 38 Missionary Unhappy Blow, 38 Missionary Unhappy Blow, 38 Missionary Unhappy Blow, 38 Missionary Unhappy Blow, 36 Missionary Unhappy Blow, 38 Missionary Unhappy Blow, 36 Missionary Unhappy Blow, 36 Missionary Unhappy Blow, 37 Missionary Unhappy Blow, 38 Missionary Unhappy Blow, 41 Missionary Unha | | | | | | |
| Social Always Safe, Social Raways | 34 | Florence, Cap. Tuscany, | Marble Remitted. | | | |
| 36 Galveston, Cap. Texas, Missionary Unhappy blow, 29 W. 95 37 Geneva, Switzerland, Mock Rich sage, 46 46 38 Genoa, Cap. Italy, Moving Rare sofa, 44 8 39 Ghent, Belgium, Maple, Wealthy home, 51 3 40 Gibraltar, Spain, Base Much Law, 36 W. 5 41 Glasgow, Scotland, Red Lilly Hair, 55 W. 4 42 Halifax, Nova Scotia, Running Rare Gem, 44 W. 63 43 Hamburg, Germany, Roman Lame Boy, 53 W. 63 44 Havana, Cuba, Rome Enemy Vain, 23 W. 82 45 Ispahan, Persia, Real Money and Wealth, 35 13 46 Jeddo, Cap. Japan, Real Money and Wealth, 35 13 47 Jerusalem, Syria, Real Money and Wealth, 35 13 48 Kingston, Jamaica, W. I. Rowing Thick Cash, 17 W. 76 49 Kingston, Upper Canada, Rice Royal, 40 70 51 Leghorn, Italy, Lied Rowi is oblous, 43 10 | | | | | | |
| 37 Geneva, Switzerland, Mock Rich Sage, 46 6 8 8 6 6 9 6 6 6 9 6 6 6 | 36 | Calveston Can Toyes | | | | |
| 38 Genoa, Cap. Italy, Moving Rare Sofa, 44 8 39 Ghent, Belgium, Maple, Wealthy Home, 51 3 3 4 6 Gibraltar, Spain, Base Much Law, 36 W. 5 5 4 4 Halifax, Nova Scotia, Red Lilly Hair, 55 W. 4 4 4 Halifax, Nova Scotia, Running Rare Gem, 44 W. 63 43 Hamburg, Germany, Roman Lame Boy, 53 9 9 4 Havana, Cuba, Rave Enemy vain, 23 W. 82 Rave Enemy vain, 23 W. 82 Real Money and Wealth, 32 5 1 3 3 5 1 3 3 3 5 1 3 3 5 1 3 3 3 5 1 3 3 3 5 1 3 3 3 5 1 3 3 3 3 3 3 3 3 3 | | | Mock Dray and | | | |
| 39 Ghent, Belgium, Maple, Wealthy home, 51 3 40 Gibraltar, Spain, Base Much Law, 36 W. 5 41 Glasgow, Scotland, Red Lilly Hare, 55 W. 4 42 Halifax, Nova Scotia, Running Rare Gem, 44 W. 63 43 Hamburg, Germany, Roman Lame Boy, 53 9 9 9 9 9 9 9 9 9 | | | | | | |
| 40 Gibraltar, Spain, 41 Glasgow, Scotland, 42 Halifax, Nova Scotia, 43 Hamburg, Germany, 44 Havana, Cuba, 45 Ispahan, Persia, 46 Jeddo, Cap. Japan, 47 Jerusalem, Syria, 48 Kingston, Jamaica, W. I. 49 Kingston, Upper Canada, 50 Leeds, England, 51 Leeds, England, 52 Lima, Cap. N. Peru, 53 Lisbon, Cap. Portugal, 54 Liverpool, England, 55 London, Cap. England, 56 Lyons, France, 57 Madras, Hindoostan, 58 Madrid, Cap. Spain, 59 Manchester, England, 60 Manilla, Phillipine Islands, 61 Marseilles, France, 62 Mexico, Cap. Morocco, 63 Milan, Italy, 64 Morocco, Cap. Morocco, 65 Moscow, Russia, E. 66 Muscat, Arabia, 67 Nankin, China, 68 Naples, Cap. Italy, 69 Oporto, Portugal, 71 Paris, France, 72 Pekin, Cap. China, 73 Rome, Italy, 74 Prague, Austria, 75 Rome, Italy, 76 Riga, Russia, 77 Rio Janeiro, Cap. Brazil, 78 Rome, Italy, 79 Rotterdam, Holland, 79 Rotterdam, Holland, 79 Rotterdam, Holland, 70 Red Lichy Harr, 76 Riga, Russia, 76 Quico, Cap. England, 77 Rio Janeiro, Cap. Brazil, 78 Rome, Italy, 79 Rotterdam, Holland, 79 Rotterdam, Holland, 79 Rotterdam, Holland, 70 Red Lichy Harr, 76 Riga, Russia, 76 Quico, Cap. England, 77 Rio Janeiro, Cap. Brazil, 78 Rome, Italy, 79 Rotterdam, Holland, 79 Rotterdam, Holland, 70 Riga Russia, 70 Riga Russia, 71 Read Much Lamr, 75 Quico, Name Englan, 75 Quico, Name Lame Boy, 75 Quico, Name Lame Boy, 75 Quico, Name Cape, 76 Riga, Russia, 77 Rio Janeiro, Cap. Brazil, 78 Rome, Italy, 79 Rotterdam, Holland, 79 Rotterdam, Holland, 70 Riga Russia, 71 Read Much Lahr, 71 Red Mining Rape Mexit, And Man A TIDY FOE, 70 Riga, Russia, 71 Rio Janeiro, Cap. Brazil, 72 Rote, Cap. England, 73 Rome, Italy, 74 Roman Lame Boy, 75 Quico, Name Lame Boy, 75 Quico, Name And Vall, Man A TIDY FOE, 75 Quico, Cap. Equador, 76 Riga, Russia, 77 Rio Janeiro, Cap. Brazil, 78 Rome, Italy, 79 Rotterdam, Holland, 79 Rotterdam, Holland, 70 Riga Russia, 70 Riga Russia, 71 Rape Rote Mall Dame, 75 Riga Parke Cash, 76 Riga Muscat, Anabia, 77 Rio Janeiro, Cap. Brazil, 78 Rome, Italy, 79 Rotterdam, Holland, 79 Rotterdam, Holland | | | | | | |
| 41 Glasgow, Scotland, 42 Halifax, Nova Scotta, 43 Hamburg, Germany, 44 Havana, Cuba, 44 Havana, Cuba, 45 Ispahan, Persia, 46 Jeddo, Cap. Japan, 47 Jerusalem, Syria, 48 Kingston, Jamaica, W. I. 49 Kingston, Upper Canada, 50 Leeds, England, 51 Leghorn, Italy, 52 Lima, Cap. N. Peru, 53 Lisbon, Cap. Portugal, 54 Liverpool, England, 55 London, Cap. England, 56 Lyons, France, 57 Madras, Hindoostan, 58 Madrid, Cap. Spain, 59 Manchester, England, 60 Manilla, Phillipine Islands, 61 Marseilles, France, 62 Mexico, Cap. Mexico, 63 Milan, Italy, 64 Morocco, Cap. Morocco, 65 Moscow, Russia, E. 66 Muscat, Arabia, 67 Nankin, China, 68 Naples, Cap. Italy, 69 Oporto, Portugal, 79 Palermo, Sicily, 71 Paris, France, 71 Paris, France, 72 Pekin, Cap. China, 73 Rome, Italy, 74 Prague, Austria, 75 Quito, Cap. Brazil, 76 Riga, Russia, 77 Rio Janeiro, Cap. Brazil, 78 Rome, Italy, 79 Rotterdam, Holland, 70 Palermo, Stap. 70 Palermo, Cap. Brazil, 79 Rotterdam, Holland, 70 Palerton, Cap. Brazil, 70 Rotterdam, Holland, 71 Paris, France, 72 Rotterdam, Holland, 73 Pernambuco, Cap. Brazil, 74 Prague, Austria, 75 Quito, Cap. Brazil, 76 Riga, Russia, 77 Roterdam, Holland, 77 Roterdam, Holland, 78 Pernambuco, Cap. Brazil, 79 Rotterdam, Holland, 79 Rotterdam, Holland, 70 Palerton, Cap. Brazil, 70 Rotterdam, Holland, 70 Palerton, Cap. Brazil, 71 Paris, France, 72 Rotterdam, Holland, 73 Pernambuco, Cap. Brazil, 74 Prague, Austria, 75 Quito, Cap. England, 76 Riga, Russia, 77 Roterdam, Holland, 78 Rome, Italy, 79 Rotterdam, Holland, 79 Rotterdam, Holland, 79 Rotterdam, Holland, 79 R | | | 7) 3/ | | | |
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| 79 Rotterdam, Holland, Capacious Letter, 51 04 | | | Quivering HARD TONE. | | | |
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| a thought and the same of the | | | | | | |
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| 81 St. John, West Indies, 82 St. Johns, Newfoundland, | Foot DEAF JUDGE, Fine WORK a LASS, | N. 18 47 | W. 66 W. 52 |
|--|---------------------------------------|-------------|----------------|
| 83 St. Johns, New Brunswick, | Famed ROYAL JUDGE, | 45 | W. 66 |
| 84 St. Petersburg, Russia, | Fair Holy Abby at Mass, | 5 9 | 30 |
| 85 St. Salvador, Brazil, | Foolish TINY MUFF, | 12 | W. 38 |
| 86 Seville, Spain, | Fashionable MAKE SAIL, | 37 | W. 5 |
| 87 Smyrna, Turkey, | Vigorous Move a Yankee, | 38 | 27 |
| 88 Stockholm, Sweden, | Vivid HELP the DEAF, | 59 | 18 |
| 89 Sidney, Australasia, | Vaporous Mamma with delig | нт, S. 33 | 151 |
| 90 Trieste, Austria, | Passable Real time, | 45 | 13 |
| 91 Tripoli, Cap. Tripoli, | Beautiful MEAN TIME, | 32 | 13 |
| 92 Tunis, Cap. Tunis, | . Bending Much of a dose, | 36 | 10 |
| 93 Valparaiso, Chili, | Bemoaning Some mocked, | S. 33 | 71 |
| 94 Venice, Italy, | Bright Roll of Tin, | 45 | 12 |
| 95 Vera Cruz, Mexico, | Blunt Top of the PAGE, | 19 | W. 96 |
| 96 Vienna, Austria, | Patched Rough Dish, | 48 | 16 |
| 97 Warsaw, Poland, | Begging LINEN and WAD, | 52 | 21 |

LENGTH OF RIVERS.

The learner will memorize the length of rivers much sooner by connecting the indicating words with the names of the rivers in a sentence.

EXAMPLE.

On the banks of the Mississippi there are some beautiful *Roads, 4100. On the shores of the Missouri can be seen flocks of New Snipes, 2900.

NORTH AMERICA.

| Mississippi, *Roads, 4100 New Missouri, Snipes, 2900 | |
|--|---|
| Modern Mackenzie, Nails, 2500 Rich St. Lawrence, Nuns, 2200 | |
| Long Arkansas, Noses, 2000 | Known Clarks, |
| Chief Rio del Norte, Doves, 1800 | Nameless Semerone, |
| Curious Columbia, each, Atlas, 1500 | Narrow Brazos, Null Cumberland, |
| Bold Ohio, TEAMS, 1300 | |
| Dozing Saskatchawan, | Naked White, |
| Tidy Platte, Tones, 1200 | Novel Alabama, |
| Tiny Lewis, | Mossy Liards, |
| Tame Kanzas, DATES, 1100 | |
| Daring Yellowstone, Diseases, 1000 | Mean Koksah, Mimic East Main, Loss, 500 |
| Dutch Churchill, Decorated Tennessee, PEAS, 900 | Marble Red, Small Gila, |

^{*}To each of the translations add one cypher. Example-Roads, 410-0.

| - m | | | | |
|---|-------|-------------------------------|------------|------|
| Missionary Susquehanna, | | Gem Nelson, |) | |
| Mock Potomac, | | Cheerless Neuces, | | |
| Moving Illinois, | | Shallow Penobscot, | | |
| Maple Wabash, | | Judge Hudson, | MAIL, | 350 |
| Rose Nesuketonga, Loss, | 500 | Chalk Alleghany, | { | 000 |
| neu wasina, | 000 | Shivered Cape Fear, | | |
| Running James, | | Cheap Pearl, | | |
| Roman Roanoke, | | Costly Iowa, |) | |
| Rare Savannah, | | Quiet Hay, |) | 000 |
| Real Tombigbee, | | Cunning Severn, | Mouse, | 300 |
| Wretched St. Johns, N. B. | | Common St. Peters, |) | |
| Ragged Connecticut, | · · | Curious Kennebec, | • | |
| Raving Great Pedee, | 450 | Clothes Monongahela, | | |
| Tupe Des momes, | 200 | Kitchen Rock, | | |
| Lazy Osage, | • | Quick Kaskaskia, | 7.0 | 900 |
| Little Clamet, | | Quivering Green, | Mouse, | 300 |
| Lean Great Whale, | | Capacious Licking, | | |
| Luminous Saguenay, | | Fuzzy Neuse, | | |
| Large Grande, | | Foot St. Peters, | | |
| Loyal Delaware, | | Fine Big Black, |) | |
| Lashed Wisconsin, | 400 | Famed St. Johns, Fa, | NI | 950 |
| Lucky Kanawha, Rose, | 400 | Fair Little Missouri, | NAIE, | 250 |
| Lively Altamaha, | | Foolish Teton, | | |
| Liberty Yazoo, | | Fashionable Merrimac, | | 200 |
| Chosen James, I. T. | | Vigorous Tar, | Nose, | 200 |
| Shot St. Francis, Shining Wapticacoos, | | Vivid White, | , | |
| 8 | | | | |
| SOUTI | H A | MERICA. | | |
| America Manageres | 2600 | Noted Diving | BASE, | 900 |
| Amazon, Marches, | | Noted Puras, Known Uaupes, | DASE, | 300 |
| New Rio de la Plata, Union or LAW, | | Nameless Putumayo, | | |
| Modern Madeira, No News, | | Narrow Jurua, | | |
| Rich Parana, Debase, | | Null Parnaiba, | } FACE, | 800 |
| Long Oronoco, ATLAS, Chief Zingu, | 1000 | New shaped Salado, | | |
| Curious St. Francisco, Times, | 1300 | Naked Uraguay, | | |
| Fine Rio Negro, | | Novel Jutay, } |) | |
| Rold Hoavelo | | Mossy Rio Negro, | Keys, | 700 |
| Dozing Para, EYE WITNESS, | 1200 | Metallic Cauca, | | |
| Tidy Mamore, | | Mean Meta, | CHAISE | 600 |
| Tiny Caqueta, | | Mimic Guaviare, | O LILLION, | 000 |
| Tame Tapajos, | | Marble Arauca, | | |
| Daring Tocantins, DATES, | 1100 | Small Huallaga, | - | F00 |
| Tall Araguay, | 11100 | Mission Gurapy | Loss, | 500 |
| Dutch Pilcomayo, | | Mock Guapore, | | |
| Decorated Vormaio | | Moving Paraiba, | RILE, | 450 |
| Tough Colorado, DISEASES, | 1000 | Maple Negro, | | |
| Tabby Magdalena, \ | | Rosy Saladillo, | RICE, | 400 |
| Nice Tunguragua, BASE, | 900 | Red Maroni, | MILE, | 350 |
| | | · | , | |
| E | UR | OPE. | | |
| | | | | |
| Volga, Moses, | 2000 | Modern Don, | Diocese, | 1000 |

in har constitution in the production of the pro

| Long Rhine, | Voice, | 800 | Naked Save, | RACE, | 400 |
|--|--------------------|-------|--------------------------------------|-----------|------|
| Chief Dwina, Curious Petchora, ? | Goose, | 700 | Novel Onega, Noble Dahl, | | |
| Fine Elbe, | Shoes, | 600 | Mossy Bug, | | |
| Bold Vistula, | LILY, | 550 | Metallic Wartha, . } | MAIZE, | 300 |
| Dozing Tagus, § | | 000 | Mean Weser, | | , . |
| Tidy Dniester, { Tiny Loire, } | Loss, | 500 | Mimic Seine, Marble Garonne, | | |
| Tame Viatka, | | | Small Guadelquiver, | | |
| Daring Prypetz, | | | Missionary Umea, | | |
| Tall Donetz, | - | 4 2 4 | Mock Tornea, | | |
| Dutch Odruth, | Roll, | 450 | Moving Kalix, | NAIL, | 250 |
| Decorated Douro Tough Rhone, | 4 | | Maple Glommen, Rosy Clara, | | |
| Tabby Thesis, | | | Red Lulea, | | |
| Nice Mezene, | | | Running Skelleftea, | NICE, | 200 |
| Noted Desna, | | ` | Roman Luisna, | | |
| Known Bog, | Horse, | 400 | Rare Ems, | *THICKLY, | 175 |
| Nameless Pruth, | • | | Real Indal, | . D | 150 |
| Narrow Gaudiana, J Null Po, | | | Wretched Minho, Ragged Tiber, | Dole, | 150 |
| New shaped Drave, | RACE, | 400 | raggea Tibel, | | |
| • (• • • • • • • • • • • • • • • • • • | | * ~ | ` . | | |
| | | A S | IA. | | |
| Yang-tse-kiang, | Novice, | | Tough Sutlege, | BASS, | 900 |
| New Lena, | NATCHEZ, | 2600 | Tabby Salwen, | | |
| Modern Obi, Rich Hoang Ho, | SINLESS, | 2500 | Nice Ishim, Noted Tigris, | FACE, | 800 |
| Low Yenesei, | Names, | 2300 | Known Nerbuddah | FACE, | 800 |
| Chief Amoor, | No noise, | | Nameless Meinam, | 2 2029 | |
| Curious Irtish, ? | Noises, | 2000 | Narrow Tobol, | | |
| Fine Cambodia, | 1101323, | 2000 | Nullified Sihon, | GEESE, | 700- |
| Bold Indus, | TAX, | 1700 | New shaped Cashgar, | , | |
| Dozing Irrawaddy, \(\) Tidy Ganges, | DITCHES, | 1600 | Naked Hoang-kiang, J. Novel Kolima, | | |
| Tiny Tungooska, | | | Noble Helmund, | SHOES, | 600 |
| Tame Burrampooter, | Toms, | 1900 | Mossy Godavery | | |
| Daring Euphrates, | TREES, | 1400 | Metallic Usuri, | Loss, | 500 |
| Tall Amoo, | DISEASE, | 1000 | Mean Krishna, \(\) Mimic Mahanuddy, | RAIL, | |
| Dutch Songari, \(\) Decorated Indighirca, | BASS, | | Marble Attruck, | Muse, | |
| Decorated Highines, | | | · · | 2120029 | 000 |
| | A | FR | ICA. | | |
| Nile, (| Knives, | 2800 | Chief Gambia, | Goose, | 600 |
| New Niger, | | | Curious Taccazze, ? | CHOICE, | 600. |
| Modern Senegal, | Tones, | | Fine Ambriz, | | |
| Rich Orange, Long Abawi, | DISEASE, Voice, | | Bold St. Paul's | Mass, | 300 |
| and and the | · | | NICA. | | |
| | . 00 | LAA. | N I C.A. | | |
| Murray, . | | | | DISEASE, | 1000 |
| | | | | | |

^{*}An exception to the rule—no cypher to be added.

ALTITUDE OF MOUNTAINS,

AND OTHER ELEVATIONS ON THE GLOBE.

| · · | Feet. |
|--|--------|
| Chumularee, highest in the world—Thibet, NAP of an EASY SWISS, | |
| Sorata, highest in America—Bolivia, New Nail up the MUFFS, | |
| Highest flight of a balloon—France, Modern Names in an ice-house, | |
| | |
| | |
| Highest flight of a condor—South America, Long Wants of a Swiss, | 21,000 |
| Hindoo Koosh—Affghanistan, Chief Anise in Cheeses, | |
| Highest spot ever trod by man—Equador, Curious DEEP RECESS, | |
| Cotopaxi, highest Volcano—Equador, Fine Tough for Beat, | |
| St. Elias, highest mountain in North America, Bold Dig the Basis, | |
| Popocatapetl, highest in Mexico, Dozing Talk to excess, | |
| Mouna Roa, highest in Oceanica—Hawaii, Tidy Talk of Losses, | 17,500 |
| Brown, highest of Rocky mountains—N. America, Tiny Audacious Swiss, | 16,000 |
| Mt. Blanc, highest in Europe—Italy, Tame Dull shovel, | 15,685 |
| Limit of perpetual snow at the equator, Daring Dull Noises, | |
| Volcano Guatemala, Tall Tales of the Swiss, | |
| Antisana farm-house—Equador, Dutch Dear to the masses, | |
| Demayend, highest of Elburz mountains—Persia, | |
| Decorated Dairy houses in use, | 14 000 |
| Mt. Ophir—Sumatra, Tough Tame faces, | |
| Limit of pines under the equator, Debased TAWNY FACES, | |
| City of La Paz—Bolivia, Nice Tiny coaches, | |
| | |
| | |
| Miltsin, highest of Atlas mountains—Morocco, None Deny the Lasses, | 12,300 |
| Peak of Teneriffe—Canaries, Nameless Tone of a Tick WATCH, | |
| Mulhacen, highest of Sierra Nivada—Spain, Narrow TAUGHT VICES, | |
| Mt. Perdu, highest of Pyrenees—France, Null Detain in Jail, | |
| Mt. Ætna, Volcano—Sicily, New shaped IDEAS of a PALACE, | 10,950 |
| Limit of oaks under the equator, Naked Does less in a House, | |
| Mt. Lebanon—Syria, Novel Daisies of a size, | 10,000 |
| Ruska Poyana, highest of Carpathian—Austria, Noble Pipe of Tin, | |
| City of Quito—Equador, Mossy Boxish Mess, | |
| St. Bernard convent—Switzerland, Metallic Face Move, | |
| Pendus, highest in Greece, Mean Coyish Quack, | |
| City of Mexico—Mexico, Marble Queer goose, | 7,470 |
| Black mountain, highest of Blue Ridge—N. Carolina, | |
| Small Chair of a Coach, | 6,476 |
| Mt. Washington, highest of White mountains—N. Hampshire, | • |
| Mushy Share of envy | 6,428 |
| Mt. Marcy, in New York, Mock Low Muses, | |
| Mt. Hecla, highest in Iceland, Moving Rough FIFE, | 4,888 |
| Ben Nevis, highest in G. Britain—Scotland, Maple Room in a CAB, | 4,379 |
| Mansfield, highest of the Green Mountains, Rosy Run in a Cab, | |
| Peaks of Otter—Virginia, Red Ruin of Ages, | |
| Mt. Vesuvius, Volcano—Naples, Running Map of the moon, | |
| Round Top, of Catskill mountains—New York, Roman Miffy sire, | |
| | |
| | |
| Pyramids, highest work of man—Egypt, Real Whole fire, Westched Park Num. | |
| Mt. Corno, highest of Appenines, Naples, Wretched Pale Nut, | |
| Snehatta, highest of Dofrafield, Sweden, Ragged Fine Houses, | |
| Mt. Sinai—Arabia, Ripe Fit to Shave, | 8,168 |
| | |

EXTENT OF COUNTRIES.

IN SQUARE MILES.

NORTH AMERICA.

| Russian America, Greenland, British America, United States, Texas, Mexico and Yucatan, Guatimala, West Indies, | Losses,* New Furs, Modern Snow and mighty ice, Rich Name of an ice house, Long Human eyes, Chief Tame vice, Curious Noses, Fine Disease, | | 500,000 840,000 2,310,000 2,300,000 320,000 1,380,000 200,000 100,000 |
|---|---|------------|--|
| ** *********************************** | Bold GAP in the LACE, | Total, | 7,950,000 |
| SC | OUTH AMERICA. | Louis | 1,000,000 |
| New Grenada, Venezuela, Equador, Guiana, Peru, Bolivia, Chili, Brazil, Buenos Ayres, Paraguay, Uraguay, Patagonia, | Dozing Release, Tidy Ruins, Tiny Novice, Tame Duchess, Daring Armies, Tall Release, Dutch Tax, Decorated Mumps, Tough Glass, Tabby Fife, Nice Pony, Noted Mix, | | 450,000 420,000 280,000 160,000 430,000 450,000 170,000 3,390,000 750,000 88,000 92,000 370,000 |
| | Known to be Causeless, | Total, | |
| | EUROPE. | I. Otaly . | *,000,000 |
| Sweden and Norway, Russia and Poland, Denmark, Holland, Belgium, Great Britain and Ireland, France, Spain, Portugal, Prussia, Austria, Smaller German States, Switzerland, Italy, Ionian Islands, Greece, Turkey, | Nameless Winnipeg, Narrow Duck and Eagle, Null Union, New shaped Tide, Naked Dome, Novel Dainty, Noble No Sale, Mossy Defame, Metallic Mob, Mean Desk, Mimic New Help Marble Dozen, Small Tell, Mushy Athenian, Mock Day, Moving Indies, Maple Nosegay, | | 207,000 1,775,000 22,000 11,000 13,000 121,000 205,000 183,000 107,000 259,000 102,000 15,000 122,000 1,000 210,000 207,000 |
| | Rosy Homage of a for, | Total, | 3,689,000 |

^{*}To each Translation, add three ciphers. Thus: Losses-500-000.

ASIA.

| | 21 10 1 21 . | | |
|------------------------|------------------------------|--------|------------|
| Asiatic Russia, | Red Whole masses, | | 5,300,000 |
| Independent Tartary, | Running GIPSY, | | 690,000 |
| Turkey, | Roman Muck House, | | 370,000 |
| Syria and Palestine, | Rare Jewess, | | 60,000 |
| Arabia, | Real PAPACY, | | 990,000 |
| Persia, | Wretched Rocks, | | 470,000 |
| Affghanistan, | Ragged MERCY, | | 340,000 |
| Beloochistan, | Roving Noses, | | 200,000 |
| Hindoostan, | Ripe Dunces, | | 1,200,000 |
| Eastern or Chin India, | Lazy Happiness, | | 920,000 |
| Chinese Empire, | Little Alliances, | | 5,200,000 |
| Japan, | Lean NATCHEZ, | | 260,000 |
| | Luminous Dutch icehouses, | Total, | 16,000,000 |
| | AFRICA. | | |
| Barbary, | Large Lakes, | | 570,000 |
| Egypt, | Loyal Device, | | 180,000 |
| Nubia, | Lashed up Immense, | | 320,000 |
| Abyssinia, | Lucky Novice, | | 280,000 |
| Great Desert, | Lively Norch of an Icehouse, | | 2,600,000 |
| Soudan, | Liberty Dunces, | | 1,200,000 |
| Bergoo, Darfor, &c., | Chosen Low Heroes, | | 540,000 |
| Senegambia, | Shot Homeless, | | 350,000 |
| Upper Guinea, | Shining Novice, | | 280,000 |
| Lower Guinea, | Gem Notch of ice, | | 260,000 |
| Southern Africa, | Cheerless Refuse, | | 480,000 |
| Eastern Africa, | Shallow Cheeses, | | 600,000 |
| Ethiopea, | Judge Mighty mass, | | 3,130,000 |
| African Islands, | Chalk NEW DICE, | | 210,000 |
| | Shivered DIE of DISEASES, | Total, | 11,000,00 |

DIRECTIONS.

As in the preceding Sections, all the *indicating phrases* relating to one State, on the following page, should be joined to the name of the State, by constructing a sentence.

EXAMPLES.

In Maine were MANY ROSES found in a DUTCH MASS, where they continued STILL to TALK.

In New Hampshire they were made to weep over losses, not about a Dutch NAME, UNLESS a HERO.

To avoid mistake in assigning the right number of figures to the members which each State sends to Congress, the *symbol* which corresponds to the number should be *located* in those States which send more than can be expressed by one figure.

EXAMPLES.

Massachusetts, Kentucky, and Indiana, each send 10 members. The Dozing chair should be located in each of them.

Ohio sends 21 members, in which should be located the Noted bear.

STATISTICS OF THE UNITED STATES.

| | itatives. | *151 +7 | 250 4 | 233 4 | 356 10 | 72 2 | 215 4 | 128 | 60 5 | 100 24 | | | | 120 9 | | 207 8 | 100 7 | 91 4 | 60 4 | 66 1 | 75 11 | | 72 21 | | 100 10 | 91 7 | 49 5 | | 1 | | 66 2 | Electors, | |
|-------------------------------|--------------------------------|--------------------|--------------------------------------|-------------------------|---------------------|-------------------|--------------------|------------------------------|----------------------------|--------------------|---------------------|---------------------------|---------------------------------|---------------------------|------------------------|-----------------------------|----------------------|----------------------------|----------------------|--------------------|-----------------------|---------------------------|-------------------------|---------------------------------|----------------------|-----------------------------|----------------------------|---------------------------------|---------------------------|-----------------------|----------------------------|---|--|
| IAIES. | State & U. S. Representatives. | | 1623 Unless a hero, | 1725 Enemy in the MIRE, | 1620 Militia days, | 1636 CANNON, | 1633 NEAT LAWYER, | 1614'A TINY FOE in the MIRE, | 1624 Joyously, | 1682 Hot seasoner, | 1627 NOTED, | | | 1650 WITNESS of a BOY, | 1670 TINY RAKE, | 1733 NEW SKIFF, | 1702 Dies sick, | 1716 BATTERY, | 1699 Сногсе нево, | 1685 JEW SHOT, | 1756 CALL OF DUTY, | 1775 Dozes and Dies, | 1788 Gone in the NIGHT, | 1670 ALARM, | 1690 DISEASED SO, | 1683 Poetic, | 1763 REPEAL, | | 1656 Day, | | 1823 Judge now. | Ex: Rhode Island has 2 Senators and 4 Electors. | |
| LIBILOS OF THE UNITED STALES. | When Settled. | 32,400 DUTCH MASS, | 9,500 DUTCH NAME, | 9,700 THICK NAIL, | 7,800 TOYISH NOISE, | 1,251 TEACH MUCH, | 4,789 DUTCH MUMMY, | 46,220 DISH WATER, | 7,941 Addition of an Hour, | 46,215 DUTCH FAN, | 2,068 TEACH a NAG, | 10,755 Dodge the Mire, | 65,700 Tie on a watch-house key | 51,632 Stageless, | 31,565 WHITISH WAX, | 61,683 Duck a миммх, | 54,084 Tax for wine, | 49,456 TALK DUTCH, | 47,413 TEACH a BABY, | 54,617 DUTCH FLEE, | 41,752 Took the LASH, | 40,023 Duck and an EAGLE, | | ow, 60,537 Touch the cause, | 35,626 WITTY CHAPS, | 56,506 STITCH OF FAME, | 70,050 TAKE a CHUM, | 100 | 56,336 TALL JAIL, | | 320,000 Tough NAME. | of Congress. | |
| SIAIISIICS | Square Miles. | MANY ROSES, | New-Hampshire. New Weep over losses, | Modern Happy Kisses, | Rich WEAK VOICES, | Long Deny a Lady, | Chief RAKE OF FOP, | Curious RASH ANNOYANCE, | Fine Cooper's fee, | Bold RICH NODDLE, | Dozing Noisy Chief, | Tidy Daist, oak and lilt, | Tiny Jail CASES, | Tame Light of a watchman, | Daring Middle of July, | Tall SHOUT of JOY for FAME, | Dutch Lower Sphere, | Decorated Rob the MILITIA, | Tough Require time, | Tabby Large Dog, | Nice Rude Colony, | Noted Raises the enemy, | Known Worse Losses, | Nameless Cheese from a Lame cow | Narrow SMALL CHANGE, | Null EULOGY on a HOLY SAGE, | New shaped Excess of LIES, | Naked DISUSE, | Novel SLYISH and MUMMISH, | Woole FONY OR PUMICE, | Metallic Man was so saucy. | entatives sent to the State Legislature. †! Senators, and has as many Electors as ther | |
| | States. | Maine. | New-Hampshire | Vermont. | Massachusetts. | Rhode Island. | Connecticut. | New-York. | New-Jersey. | Pennsylvania. | Delaware. | Maryland. | Virginia. | North-Carolina. | South-Carolina. | Georgia. | Alabama. | Mississippi. | Louisiana. | Arkansas. | Tennessee. | Kentucky. | Ohio. | Michigan. | Indiana. | Hinois. | Missouri. | Dist. of Columbia Naked Disuse, | Florida. | VV ISCONSID. | Texas. | *Number of Repress Each State sends 2 | |

ASTRONOMY.

Or all the sciences, with which man is acquainted, there is none which has drawn more largely on the *imagination* than Astronomy. When our attention is directed to the heavens, for the purpose of taking an outline of the constellations, we find ourselves continually assisted in our wanderings through the wide expanse of "celestial scenery," by the *symbols* with which the fruitful imagination of the ancients, covered the great dome above us.

Do we not find relief in this "devious maze," by tracing out the Twins, the Crab, Orion, Ursa Minor, (Little Bear,) Ursa Major,

(Great Bear.)

Let the pupil now place himself in the centre of his mnemonic room, as when studying geography, and locate these constellations on the walls of his transparent DOME, with the stars all shining through, so that he can trace them all clearly, giving to each its right name. It will be recollected that the stars placed to the right hand on a globe, you must look for on your left in the sky, and vice versa—here this difficulty is obviated; for seating yourself in the geographical rooms, and you will be surrounded by the stars in their proper places. The longitude of a star is reckoned round the globe. As we start from Iceland, and go in a straight direction until we reach Iceland again, in geography; so in astronomy we commence at Aries, which should be placed down close to the floor of the upper room—the ecliptic—(the same as the meridian from which we measure longitude, in geography)—and count up to 90 deg. on the first, or left hand wall, and from 90 to 180 deg. on the second, and from 180 to 270 deg. on the third, and from 270 to 360 on the fourth wall, where it comes up to Aries again.

"For the sake of convenient reference, the heavens were early divided into constellations, and particular names assigned to the constellations, and to the stars which they contain. A constellation may be defined to be a cluster or group of stars, embraced in the outline of some figure. These figures are in many cases creations of the imagination, but in others, the stars are in reality so arranged as to form figures which have some resemblance to the objects whose names have been

assigned to them.

"These divisions of the celestial sphere bear a striking analogy to the civil divisions of the globe. The constellations answer to states and kingdoms, the most brilliant clusters to towns and cities, and the num-

ber of stars in each, to their respective population. The pupil can trace the boundaries of any constellation, and name all its stars, one by one, as readily as he can trace the boundaries of a state, or name the towns and cities from a map of New England."—Geography of the Heavens.

96 CONSTELLATIONS.

WITH THE NUMBER OF STARS BELONGING TO EACH,

WITH THE MONTHS WHEN THEY APPEAR.

| JANUARY. | | | | | MA |
|----------|------|----|----|----------|----|
| | PEAR | 84 | 31 | Camelian | |

| 1 | Eridanus, | PEAR, 84 | 31 Camelion, | Metallic DICE, | 1 |
|----|------------------|-------------------|-----------------------|----------------|-----|
| 2 | Reticulus, | New DICE, 10 | 32 The Cross, | Mean OIL, | 4 |
| | Taurus, | Modern Dart, 141 | 33 Coma Berenices, | Mimic Rum, | 4 |
| | Brandenburg, | Rich YAM, 3 | 34 Corvus, the Crow, | , Marble PEA, | - 1 |
| 5 | Praxiteles, | Long Dish, 16 | 35 Southern Fly, | Small Hall, | - |
| 6 | Camelopard, | Chief Wolf, 58 | 36 Cor Caroli, Mi | ssionary Hymn, | |
| 7 | Auriga, | Curious Judge, 66 | 37 Virgo, | Mock DATES, J | 11 |
| 8 | Sword Fish, | Fine Show, 6 | 38 Asterion et Chara, | Moving SNAIL, | 2 |
| 9 | Mous Mensæ, | Bold Mice, 30 | 39 Centaurus, | Maple MILL, | 3 |
| 10 | Lepus, the Hare, | Dozing Dupe, 19 | | | |
| | Orion, | Tidy CALF, 78 | JUNE | | |
| 12 | Painter's Horse, | Tiny Foe, 8 | 40 Protes | D T | - |
| 13 | Noah's Dove, | Tame Dose, 10 | 40 Bootes, | Rosy LYRE, | 9 |

FEBRUARY.

| 14 | Canis Major, | Daring Maid, | 31 |
|----|--------------|--------------------|----|
| | Monoceros, | Tall MAID, | 31 |
| 16 | Gemini, | Dutch Hovel, | 85 |
| 17 | The Lynx, | Decorated WARRIOR, | 44 |
| | Argo Navis, | Tough CHERRY, | |

MARCH.

| | anis Minor, | Tabby Adder, | 14 |
|------|-------------------|-----------------|----|
| 20 F | lying Fish, | Nice Hive, | 8 |
| 21 C | ancer, | Noted FAME, | |
| | ariner's Compass, | | |
| 23 H | ydra, No | umeless Chaise, | 60 |

APRIL.

| 24 | Sextant, | Narrow ROAD, | 41 |
|----|-----------------|------------------|----|
| | Leo Minor, | Null Limb, | 53 |
| 26 | Leo Major, | New shaped Plow, | 95 |
| 27 | Air Pump, | Naked Home, | 3 |
| 28 | Ursa Major, | Novel Fog, | |
| 29 | Robur Carroli, | Noble Tune, | 12 |
| 30 | Crater, the Cup | , Mossy Meadow, | 31 |

| 40 | Bootes, | Rosy Lyre, 5 | 4 |
|----|------------------|-----------------|---|
| 41 | Compasses, | Red HARROW, | 4 |
| | | Running Tide, 1 | 1 |
| 43 | Libra, | Roman Lady, 5 | 1 |
| 44 | Lupus, the Wolf. | Rare SNARE, 2 | |

JULY.

| 40 | Corona Doreans, near NUT, | 41. |
|----|---------------------------------|------------|
| 46 | Ursa Minor, Wretched SNEER, | 24 |
| 47 | The Serpent, Ragged SHORE, | 64 |
| 48 | S. Triangle, Roving Owl, | 5 |
| 49 | Euclid's Square, Ripe Tone, | 12 |
| 50 | Scorpio, Lazy Aurora, | 44 |
| | Bird of Paradise, Little TOOTH, | 11 |
| 52 | Ara, the Altar, Lean BEE | , 9 |
| 53 | Hercules, Luminous DAY TIME, | 113 |
| 54 | Serpentarius, Large Crow, | 74 |
| | | |

AUGUST.

| noa | ODI. |
|-------------------|------------------|
| 55 Draco, | Loyal Office, 80 |
| 56 Cerberus, | Lashed, |
| 57 Scutum Sobies | |
| 58 Taurus Poniato | wski, |
| | Lively Dish, 16 |

| 50 Carona Avertualia | Thoulas Divers 16 | 9 70 Conhang Out |
|--|--------------------|---|
| 59 Corona Australis, | | |
| 60 Telescopium, | | |
| 61 Lyra, the Harp, | Shot HINDOO, 21 | |
| 62 Sagitarius, | Shining Ship, 69 | 9 NOVEMBER. |
| 62 Sagitarius, 63 Antinous, | Gem Gem, 63 | 3 Ol American Coses Tout'll 10 |
| | | of American Goose, Foot 10B, 19 |
| SEPTE | MBER. | 82 Officina Sculptoria, Fine Tune, 12 |
| | | 83 Pisces, Famed Diadem, 113 |
| 64 Sagitta, | | 8 84 Phoenix, Fair Dame, 13 |
| | Shallow Act, 71 | |
| 66 Fox and goose, | Judge Mail, 35 | 5 86 Andromeda, Fashionable Judge, 66 |
| 67 The Peacock, | Chalk Tray, 14 | 4 |
| 68 Delphinus, | Shivered THIEF, 18 | 8 DECEMBER. |
| 68 Delphinus, 69 Cygnus, 70 Capricorn, | Cheap Food, 81 | 1 20 0 |
| 70 Capricorn, | Costly Lute, 51 | 1 87 Cetus, Vigorous Еріс, 97 3 88 Triangulum, Vivid Dітсн, 16 0 89 Hydrus, Vaporous Days, 10 |
| 71 Hadley's Quadran | t. Quiet RAM. 43 | 3 88 Triangulum, Vivid Diтch, 16 |
| | Burning Dose, 10 | 89 Hydrus, Vaporous Days, 10 |
| 73 The Indian, | | |
| 74 Equuleus, | Curious Dick 16 | 91 Triangulum Minor, |
| * ± ±quaicus, | Curious Dick, it | Beautiful Hall, 5 |
| OCTO | DED | 92 Horologium, Bending Tin, 12 |
| 0010. | DEW. | 93 Musca, Bemoaning Hero, 4 |
| 75 The Crane. | Close Time. 13 | 3 94 Chemical Furnace, |
| 75 The Crane, 76 Aquarius, Kitchen, | Dozy wife 108 | 8 Bright Water, 14 |
| 77 Southern Fish, | Quick SNAPE 24 | 4 95 Caput Medusæ, Blunt. |
| 78 The Lizard, Quin | | |
| The meant, Quit | citing THATCH, 10 | o so reiseus, randea life, ss |

PLANETS.

WITH THEIR DISTANCES FROM THE SUN IN ENGLISH MILES.

| 1 | MERCURY, | Stout Match, | 36,000,000 |
|----|----------|----------------------|--------------------------|
| | VENUS, | New Jug, | 67,000,000 |
| | EARTH, | Modern POEM CAN SHOW | |
| | Moon, | Rich NUMB BEE, (1 | from the Earth,) 239,000 |
| 5 | Mars, | Long Drone, | 142,000,000 |
| 6 | VESTA, | Chief New Noun, | 222,000,000 |
| | Juno, | Curious New Robe, | 249,000,000 |
| | Ceres, | Fine Wan Lip, | 259,000,000 |
| | PALLAS, | Bold Honeyless, | 250,000,000 |
| | JUPITER, | Dozing Revoke, | 487,000,000 |
| | SATURN, | Tidy FIBRE, | 894,000,000 |
| 12 | URANUS, | Tiny THICK BEAK, | 1,797,000,000 |

When the foregoing indicating words are translated into figures, add six cyphers. Example—Match, 36,000,000. Exceptions—the Earth and Moon, where only three cyphers are to be added.

F It will be seen that this system is capable of a much more extended application to Astronomy. Those who wish to see a very ingenious adaptation of mnemonic rules to almost every conceivable number relating to all the planets, of the Solar system, will find it in Gouraud's Phreno-Mnemotechnic "Lectures on Memory," to which work we are indebted for many useful hints.

DISCOVERIES AND IMPROVEMENTS IN THE ARTS AND SCIENCES.

| | T. G |
|--|----------------------------|
| | B. C. |
| 1 Astronomical observations first made in Babylon, | Known Moor, 2234 |
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| | lern DIP in the SEAS, 1900 |
| 4 Letters invented by Memnon, the Egyptian, | Rich DIVINE IDEA, 1821 |
| 5 Agriculture, by Triptolemus, | Long Teaches us, 1600 |
| 6 Chariots of war, | Chief TALL SIZE, 1500 |
| 7 Alphabetic letters introduced into Europe, | Curious Tall Size, 1500 |
| 8 The first ship seen in Greece, arrived at Rhodes from | m Egypt, |
| | Fine WATERFALL, 1485 |
| 9 Iron discovered in Greece by the burning of Moun | |
| | Bold WATER SWASH, 1406 |
| 10 Seaman's compass invented in China, | Dozing DEADNESS, 1120 |
| 11 Gold and silver money first coined by Phidon, king or | f Arros Tidy VIDER 894 |
| 12 Parchment invented by Attalus, king of Pergamus, | Tiny SAFE FIG, 887 |
| 13 Weights and measures instituted, | Tame Fish Boy, 869 |
| 14 First eclipse observed, | |
| | Daring Squint, 721 |
| 15 Ionic order used in building, | Tall Jewel House, 650 |
| 16 Maps and globes invented by Anaximander, | Dutch CHEESES, 600 |
| 17 Sun Dials invented, | Decorated Low elf, 558 |
| 18 Signs of Zodiac invented by Anaximander, | Tough LARK, 547 |
| 19 Corinthian order of architecture, | Tabby Holly Rose, 540 |
| 20 First public library established at Athens, | Nice Launch, 526 |
| 21 Silk brought from Persia to Greece, | Noted Manuel, 325 |
| 22 The art of painting brought from Etruria, to Rome, | |
| | Known Inhabit, 291 |
| 23 Solar quadrants introduced, | Nameless New Base, 290 |
| 24 Mirrors in silver invented by Praxiteles, | Narrow New Life, 288 |
| 25 Silver money first coined at Rome, | Null Unship, 269 |
| 26 Hour glass invented in Alexandria, | New shaped Nurse, 240 |
| 27 Burning mirror invented by Archimedes, | Naked Indian, 212 |
| 28 First fabricating of glass, | Novel Noses, 200 |
| 29 First library founded at Rome, | Noble WOODCHUCK, 167 |
| 30 Brass invented, | Mossy Thrush, 146 |
| 31 Paper invented in China, | Metalic Tassel, 105 |
| 32 Rhetoric first taught at Rome, | Mean Fig. 87 |
| 33 Blister plasters invented, | Mimic Cheese, 60 |
| 34 Julian year, regulated by Cæsar, | Marble Roll, 45 |
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| 35 Apple trees brought from Syria and Africa into Ital | A. C. |
| 20 Walnuts addition of the hible discovered | |
| 36 Vulgate edition of the bible discovered, | Missionary Native, 218 |
| 37 Porcelain invented in China, | Mock Anchor, 274 |
| 38 Water-Mills invented by Belisarius, | Moving Low LILY, 555 |
| 39 Sugar first mentioned by Paul Eginetta, a physician | |
| 40 Writing pens first made from quills, | Rosy JIM LEE, 635 |
| 41 Stone buildings introduced into England, by Benne | |
| | Red Jack House, 670 |
| 42 Couriers or posts invented by Charlemagne, | Running Effusive, 808 |
| 43 Arabic figures invented, | Roman Fathom, 813 |
| 44 Lanterns invented by king Alfred, | Rare Fors, 890 |
| 45 High towers first erected to churches, | Real DISEASES, 1000 |
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| 46 | Musical notes invented by Guy and Aretin, | Wretched Designed, 102. | 1 |
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| 47 | Heraldry originated, | Ragged Two disease, 110 | 0 |
| | Distillation first practised, | Roving DEAD LOSS, 1150 | |
| | Glass windows first used in England, | Ripe DEATH FUSS 1180 | |
| 50 | Chimneys built in England, | Lazy Denham show, 1230 | |
| | Leaden pipes for conveying water, invented, | Little Dun line, 125 | |
| | Magic lanterns invented by Roger Bacon, | Lean STING BEES 129 | |
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| | Tallow candles first used, | Luminous STING BEES, 1290 | - |
| | Fulminating powder invented by Roger Bacon, | | |
| | Spectacles invented by Spina, | Loyal Tin Pipe, 129 | |
| | Windmills invented, | Lashed up TIN PIPE, 1299 | |
| | Alum discovered in Syria, | Lucky Dumb Asses, 130 | |
| 48 | Paper, made of Linen, | Lively Dumb son, 1305 | 2 |
| 5 9 | Gunpowder invented, | Liberty Tame Muss, 133 | 0 |
| 60 | Canon invented, | Chosen Tame Muss, 133 | 0 |
| | Woollen cloths first made in England; | Shot DIM MADE, 133 | |
| | Painting in oil colors, | Shining Tortoise, 141 | |
| | Muskets used in England, | Gem THRONED, 142 | |
| | Pumps invented, | Cheerless Door NAIL, 142 | |
| | Printing invented, | Shallow WATER RAT, 144 | |
| | Wood cuts invented, | Judge Outrageous, 146 | |
| | | Chalk Outrageous, 146 | |
| | Engraving on copper, | | |
| | Almanacks first published in Buda, | Shivered Dear Chase, 146 | |
| | Printing introduced into England by Caxton, | Cheap Door case, 147 | |
| 70 | Watches invented at Nuremberg, | Costly Dark Key, 147 | |
| 71 | Tobacco discovered in St. Domingo, | Quiet TAR BEACH, 1490 | |
| | Shillings first coined in England, | Cunning Heedlessly, 150 | |
| 73 | Stops in Literature introduced, | Common Idleness, 152 | 0 |
| 74 | Spinning-wheel invented at Brunswick, | Queer Tall moss, 153 | |
| 75 | Pins invented, | Clothes Delirium, 1543 | 3 |
| 76 | Needles first made in England by an Indian, | Kitchen Tall Reel, 154 | 5 |
| | Sextant invented by Tycho Brahe, | Quick TALL LACE, 155 | |
| | Coaches first used in England, | Quivering Tall face, 158 | 0 |
| | Telescopes invented by Jansen, | Capacious Tall Piece, 159 | |
| | Thermometers invented by Drehel, | Fuzzy Jovishness, 162 | |
| | Barometer invented by Torricelli, | Foot Durch Norch, 162 | |
| | Regular posts established in London, | Fine DUTCH MEAL, 163 | |
| | Coffee brought to England, | Famed TEACH to READ, 164 | 1 |
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| | Air pumps invented, | Fair Teach to Love, 165 | |
| | Air guns invented by Guter, | Foolish Dutch Leach, 1650 | C |
| | | shionable Dutch Leach, 165 | 0 |
| | Spring pocket watches invented by Dr. Hook, | Vigorous Dutch Leave, 165 | |
| | Engines to extinguish fires, | Vivid DUTCH CHIME, 166 | |
| | Bayonets invented at Bayonne, | Vaperous Dutch case, 1670 | |
| | Telegraphs invented, | Passable Whitish fog, 168 | |
| 91 | Georgium Sidus discovered by Herschell, | Beautiful Dog fight, 1783 | 1 |
| 92 | Stereotype printing invented, | Bending Dog Fly, 178 | 5 |
| | Sunday schools established in Yorkshire, B | Remoaning Talk of a for, 1789 | |
| | Galvanism, 1767—its extraordinary effects on | | |
| | Mrs. Galvani, | Bright Talk of a for, 1789 | 9 |
| 95 | Vaccination discovered by experimenting on crim | | |
| | Planet Ceres discovered by Piazzi, | Patched Tough sight, 180 | |
| | Pallas discovered by Olbers, | Begging Tough sight, 180 | |
| | Life boats invented, | Befitting Tough sign, 1802 | 2 |
| | | Pommi Touch area 180 | 1 |
| | Planet Juno discovered by Harding, | Poppy Tough seer, 1804 | 7 |
| 100 | Vesta discovered by Olbers, | Decisive Tough sack, 1807 | 6 |
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"The proper study of mankind is man."

Note.—The indicating phrase should first be articulated, and then translated into figures, assigning the two right hand figures to the age; the figures to the left give the year in which the person died.

We shall first show the convenient application of the system, in a few specimens, to the *incidents* in the *life*, as well as to the deaths and ages of illustrious men.

DEATHS AND AGES OF THE SIGNERS OF THE DECLA-RATION OF INDEPENDENCE.

| | | HAMPSHIRE. | | |
|----|----------------------|----------------------------|------|----|
| | Josiah Bartlett, | TIE UP A CABLE CAGE, | | |
| | William Whipple, | DECK the VALE with a LILY, | | |
| 3 | 3 Matthew Thornton, | Tough sum for a for, | 1803 | 89 |
| | MAS | SACHUSETTS. | | |
| 4 | John Hancock, | THICK BEAM in a LEDGE, | 1793 | 56 |
| | 5 Samuel Adams, | Tough Sum to foot, | 1803 | 81 |
| | John Adams, | DEFY NO AGE for a POET, | | |
| | Robert Treat Paine, | DEVOTER tO FAME, | | |
| 8 | B Elbridge Gerry, | Devoter to the whices, | 1814 | 70 |
| | RHO | DDE ISLAND. | | |
| 9 | Stephen Hopkins, | THICK VEIL on the CAVE, | 1785 | 78 |
| 10 | William Ellery, | Advance on the game, | 1820 | 73 |
| | CO | NNECTICUT. | | |
| 11 | Roger Sherman, | THICK BEAM for a CANE, | 1793 | 72 |
| | Samuel Huntington, | CABBAGE in a CHAIR, | 1796 | 64 |
| | William Williams, | DEVOTED to his FOES, | | |
| 14 | l Oliver Wolcott, | Took a book and an AXE, | 1797 | 70 |
| | N | EW YORK. | | |
| 15 | William Floyd, | Fond of a fig, | 1821 | 87 |
| | 6 Philip Livingston, | Took coffee in june, | | |
| | Francis Lewis, | Tough sum for a for, | | |
| 18 | B Lewis Morris, | Take a bone for a cane, | 1792 | 72 |
| | NE | W JERSEY. | | |
| 19 | Richard Stockton, | TAKE to the FIGHT, ALAS, | 1781 | 50 |
| 20 | John Witherspoon, | Took a poor gun, | | |
| | Francis Hopkinson, | Coped with a lion, | | |
| | John Hart, | TAKE the FOES in a GALE, | | |
| 23 | Abraham Clark, | KEEPER of a CHIEF, | 1794 | 68 |
| | PE1 | NNSYLVANIA. | | |
| 24 | Robert Morris, | Tough seige to join, | 1806 | 62 |
| | Benjamin Rush, | Tough time for a Chief, | | |
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| 26 Benjamin Franklin, | Copious fire, 1790 84 |
| 27 John Morton, | THICK CAKE OF LIME, 1777 53 |
| 28 George Clymer, | FATHOM the CORE, 1813 74 |
| 29 James Smith, | Tough seige for a game, 1806 73 |
| 30 George Taylor, | GIFT in JULY, 1781 65 |
| 31 James Wilson, | THICK PUFF at LILY, 1791 55 |
| 32 George Ross, | THICK PAPER BAG, 1799 49 |
| DELAW | ARE. |
| 33 Cæsar Rodney, | THICK FUMY LIME, 1783 53 |
| 34 George Reed, | THICK BEEF ON SHORE, 1798 64 |
| 35 Thomas McKean, | Tough thick fan, 1817 82 |
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| 36 Samuel Chase, | Tough and Tidy Goose, 1811 70 |
| 37 Thomas Stone, | THICK FOG RARE, 1787 44 |
| 38 Charles Carroll, | Foeman to a bully, 1832 95 |
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| 39 George Wythe, | Tough seige with a Cough, 1806 78 |
| 40 Richard Henry Lee, | KEEPER with a CHAIN, 1594 62 |
| 41 Thomas Jefferson, | DEFY a NEW AGE for FAME, 1826 83 |
| 42 Benjamin Harrison, | TEACUPS, 1790 |
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| 44 Francis Lightfoot Lee, | |
| 45 Carter Braxton, | THICK PACK Of SHOT, 1797 61 |
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| 47 Joseph Hewes, | Kickapoo of Arabia, 1779 49 |
| 48 John Penn, | THICK FIFE for a RAKE, 1788 47 |
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DEATHS AND AGES OF MEN RENOWNED IN AMERI-CAN HISTORY.

JOHN QUINCY ADAMS.

| · · · · · · · · · · · · · · · · · · · | | |
|---|-----------------------------|-------|
| Born in Braintree, Mass., July 11th, Went to France with his father, at 11 years of age, | Тоок а локе, | 1767 |
| | New ATTACK of a cough, | 1778 |
| Returned to America in the summer of | Modern Took a CAP, | |
| | | |
| Embarks for England with his father, in November | | |
| Went with the Hon. Francis Dana, Minister to Rus | | |
| ry, in July, | Long TALK of FATE, | 1781 |
| He returned through Sweden, Denmark, Hambur, | g and Bremen to Holland. | |
| to meet his father, | Chief TALK of FAME, | 1783 |
| | Chief TALK OF FAME, | 1705 |
| He returned home and entered Harvard University | , Curious look a file, | 1199 |
| Leaves College, and enters the office of Chief Just | ice Parsons, Newburyport, | |
| | Fine Took off a cow, | 1787 |
| At the age of 33, he was appointed by Washington | n. Minister to Netherlands. | |
| and the of or order of the order of the order | | 1704 |
| TO . 1 . 4 . 1 . 11 11 11 C.1 | Bold ATTACK a BEAR, | |
| Returned to America, being recalled by his father | | |
| Elected to the Senate of Massachusetts, | Tidy Advise now, | 1802 |
| Elected United States Senator, | Tiny Tough sum, | 1803 |
| Chosen professor of Rhetoric and Oratory in Harv | ard University | |
| Chopon protessor of interested that Cratery in trait | | 1906 |
| A | Tame Tough siege, | |
| Appointed Minister to Russia by Mr. Madison, | Daring Tough soup, | 1809 |
| He was called home by Mr. Monroe, and appointed | ed Secretary of State, | |
| | Tall Tough DECK, | 1817 |
| Inaugurated President of the United States, | | |
| | | TORU |
| After having served out his term as President, he | | |
| Congress from the 12th District in Massachu | setts, from which District, | |
| and from the 8th, under the new apportion | ment, he has been success- | |
| sively returned to the present time, 1846, | | 1831 |
| | | |
| 1 Gen. John Stark, died at Manchester, N. H., 8t | h of May, | |
| T | Yough nun and a Bear, 182 | 2 94 |
| 2 David Brainard, Missionary to the Indians, | | |
| Mass., 9th of Oct. | THICK ROCK to NAP, 174 | 7 90 |
| | | .1 40 |
| 3 Robert Fulton, died at New York on the 24th of | | |
| | FATAL LOSS, 181 | 5 50 |
| 4 William Pinkney died at Washington on the 2 | 5th of February. | |
| | DEFINE a NEW LIFE, 182 | 2 58 |
| 5 Cant John Smith (whose life was saved by Do | ashontes \ died in Lon | W 00 |
| 5 Capt. John Smith, (whose life was saved by Po | | 7 27 |
| | Dashy and Mighty Lad, 163 | T 91 |
| 6 Gen. Anthony Wayne, died at a military post | on the shores of Lake | |
| | THICK BEACH WAS LAID, 179 | 6 51 |
| 7 Gen. Richard Montgomery, fell at Quebec on | the 31st of December | |
| den. Ittellara montgomery, ten at course on | Twee of December. | 5 95 |
| | THICK GALE a MILE, 177 | 0 00 |
| 8 Gen. Joseph Warren, fell at the battle of Bunke | | |
| • | Dug to kill the mob, 177 | 5 49 |
| 9 Gen. Israel Putnam, died the 19th of May, | , | |
| | z og Bang with a game 170 | 0 79 |
| | x as Bees with a cane, 179 | |
| 10 Gen. Lafayette, died in France, . | DEFAMER nor GAG, 183 | 4 11 |
| 11 Gen. Francis Marion, T. | AKE a PLEDGE at HOME, 179 | |
| 12 Roger Williams, | CHIEF MOVER, 168 | 3 84 |
| | | |
| | | |

| 13 | William Penn, | ACTIVE CREW, 1718 74 |
|----|--|----------------------------------|
| | Commodore Perry died in the West Indies, | |
| | James Otis, a popular orator, killed by lightr | |
| | John Jay, (Chief Justice,) | FINE BEHAVIOR, 1829 84 |
| | Dr. Edward A. Holyoke, | FINE and APT HOST, 1829 101 |
| | Alexander Hamilton, | Officer at work, 1804 47 |
| | Gen. Nathaniel Greene, | Gave the Alarm, 1785 43 |
| | Stephen Girard, died in Philadelphia, worth | |
| | | Tough man on a voyage, 1732 86 |
| 21 | Rev. Jonathan Edwards, | EQUALLY FILIAL, 1758 55 |
| | | FOUGH NUN Without FEAR, 1822 84 |
| | | H to DIE in a MERRY MAY, 1813 43 |
| 24 | Rev. William E. Channing, | DIVER for the NATION, 1842 62 |
| | Joseph Story, an eminent Jurist, | DEFY a ROYAL JUDGE, 1845 66 |
| | Rev. Charles T. Torrey, died in the Marylan | |
| | he had been condemned for assisting slav | |
| | their masters, | Diverge from a Mummy, 1846 33 |
| | | |

EDWARD EVERETT, A SCHOLAR AND STATESMAN.

| Born in Dorchester, Mass., | THICK PEAR, 1794 |
|---|--------------------------|
| Graduated at Harvard university, | Tough and Tipy, 1811 |
| Became pastor of Brattle Street Church, Boston, | Tough time, 1813 |
| Elected to a professorship in Harvard University, | DEVOUTLY, 1815 |
| Commenced the tour of Europe the same year, | DEVOUTLY, 1815 |
| Became editor of the North American Review, | Defiance, 1820 |
| Elected U. S. Representative in Congress, | Defamer, 1834 |
| Elected Governor of Massachusetts, | Tough Meal, 1835 |
| Minister to England, | to prevent Fraud, 1841 |
| Inaugurated President of Harvard University, | Defy a red lion, 1841 62 |

DEATHS AND AGES OF CELEBRATED MEN LIVING IN DIFFERENT AGES OF THE WORLD.

| Alexander the Great, | Mean war man, 324 32 |
|---|----------------------------------|
| Hannibal, of Carthage, | Defame a Jail, 183 65 |
| Julius Cæsar, | RARE EULOGY, 44 56 |
| Mahomet, | WATCHMAN of OCEAN, 632 62 |
| Galileo, of Florence, | TEACH of Orion and FELL, 1642 85 |
| Columbus, | TALL SAGE in JAIL, 1506 65 |
| Lorenzo de Medici, Florence, an author and | ruler, Rapine was rare, 1492 44 |
| Fernando Cortez, conqueror of Mexico, | Tall hero on a cushion, 1547 62 |
| Michael Angelo, an Italian sculptor and paint | ter, Dull sheer fop, 1564 89 |
| Tycho Brahe, an astronomer of Sweden, | Chaste as a lily, 1601 55 |
| William Shakspeare, an English poet, | Two edged julian, 1616 52 |
| John Milton, an English poet, | Dutch queer judge, 1674 66 |
| John Locke, a great English philosopher, | WAX ORGAN, 1704 72 |
| Joseph Addison, an English poet and critic, | QUIET HAPPY WORK, 1719 47 |
| Peter the Great, of Russia, | Thick nail in a loom, 1725 53 |
| Charles Rollin, a French historian, | DECORATE the FACE, 1741 80 |
| Alexander Pope, an English poet, | A GAY and RARE EULOGY, 1744 56 |
| Edward Young, an English poet, | COACH LIVERY, 1765 84 |
| Emanuel Swedenburg, founder of a sect, | Talk of Gain and Fame, 1772 83 |
| Samuel Johnson, an English lexicographer, | THICK FIERY QUILL, 1784 75 |
| Linnæus, of Sweden, a botanist, | Took a roe to view god, 1788 71 |
| | |

| Buffon, an English naturalist, | Cough at fifty, 1788 81 |
|--|----------------------------------|
| John Wesley, an English divine, | THICK BOAT and FIFE, 1791 88 |
| Richard Arkwright, an English machinist, | A CAB and NEW CHAISE, 1792 60 |
| Robert Burns, a Scottish poet, | Tough Book and Mug, 1797 37 |
| Edmund Burke, an orator and statesman, | A GAY BUCK for a JOKE, 1797 67 |
| William Cowper, an English poet, | vices of the shop, 1800 69 |
| Robert Emmet, an Irish patriot, | A TOUGH SEAM of WAX, 1803 70 |
| Thaddeus Kosciusco, a Polish patriot, | Fought with Caution, 1817 62 |
| William Herschell, an English astronomer, | DEAF NUN With FEAR, 1822 84 |
| Adam Clarke, an English divine, | A VAIN NATION, 1822 62 |
| Marco Bozzaris, a Grecian patriot, | Venom to the ARMY, 1823 43 |
| Lord Byron, an English poet, | FINER IMAGE, 1824 36 |
| Cuvier, a French geologist, | Tough man for a Jam, 1832 63 |
| Walter Scott, a Scotch novelist and poet, | Tough man for a shot, 1832 61 |
| Dr. Spurzheim, the German Phrenologist, | Tough man for a lash, 1832 56 |
| William Wilberforce, an English philanthropi | st and statesman, |
| | A Tough mummy in a case, 1833 70 |
| Mrs. Hemans, an English poetess, | Female Heroine, 1835 42 |
| Thomas Campbell, an English poet, | Tough rare joke, 1844 67 |
| | |

REMARKABLE EVENTS IN THE LIFE OF NAPOLEON.

| 1 | Made General at the seige of Toulon. | Тоок оргим, 1793. |
|----|--|----------------------------------|
| | Defeated the Parisians. | New THICK POWER, 1794 |
| 3 | Sailed for Egypt. | Modern Attack on a Bey foe, 1798 |
| 4 | Returned from Egypt. | Rich THICK PIPE, 1799 |
| | Declared First Consul. | Long THICK PIPE, 1799 |
| 6 | Declared Emperor. | Chief Adviser, 1804 |
| 7 | Declared King of Italy. | Curious Tough soil, 1805 |
| 8 | Marriage with Josephine dissolved. | Fine Device for PAY, 1809 |
| | Married Maria Louisa. | Boldly Divide us, 1810 |
| 10 | Abdicates the throne. | Dozing Defy a tory, 1814 |
| 11 | Arrived at Elba. | Tidy DIVIDER, 1814 |
| 12 | Enters Paris. | Tiny Devoutly, 1815 |
| 13 | Lost the battle of Waterloo. | Tame Devoutly, 1815 |
| 14 | At St. Helena. | Daring Devoutly, 1815 |
| 15 | Died at St. Helena. | Tall DIVINE ITALIAN, 1821-*52 |
| 16 | Exhumed at St. Helena, and interred in | Paris with great pomp. |
| | · · | Dutch from the DEEP ROSE, 1840 |

BATTLES OF NAPOLEON.

| 1 | Battle of Lodi, May 11, | THICK BEACH, 179 | 96 |
|----|-------------------------|---------------------------|----|
| | Castiglione, Aug. 3, | New THICK BEACH, 17 | |
| | | Modern Thick Beach, 179 | |
| | Arcola, Nov. 16, | | |
| | Embabe, July 21, | Rich THICK BEEF, 179 | |
| | Marengo, June 15, | Long Two faces, 180 | |
| | —— Hohenlinden, Dec. 8, | Chief Two faces, 180 | |
| | Alexandria, March 22, | Curious Devised, 18 | |
| | Austerlitz, Dec. 2, | Fine Tough soul, 180 | |
| | —— Jena, Oct. 14, | Bold Tough siege, 186 | |
| | —— Eglau, Feb. 3, | Dozing Tough whiskey, 186 | |
| 11 | Friedland, June 14, | Tidy Tough whiskey, 186 |)7 |
| | Vimeria, August 21. | Tiny Divise a foe, 186 | 98 |
| | Corunna, Jan. 16, | Tame Tough sup, 180 |)9 |
| | | * · · | |

REMARKABLE INSTANCES OF LONGEVITY.

| 1 | Galour McCrain, of the island of Java, the oldest man on record for upwards of 3000 years, who died in the reign of Charles I., and | | |
|----|---|------|------|
| | was no Dough-face, | | 180 |
| 2 | Thomas Parr, of Shropeshire, Eng, died on the 16th of November, | | |
| | Ishmael nor italian, | 1635 | 152 |
| 3 | Henry Jenkins, of Yorkshire, Eng., died December 8th, | | |
| | Dutch Jew's toy shop, | 1670 | 169 |
| 4 | Margaret Scott, of Delkeith, TALK and MOVE THINLY, | 1738 | 125 |
| 5 | John Mount, Scotland, died February, THICK JUDGE with a TORCH, | 1766 | 146 |
| 6 | Francis Conciest, of Yorkshire, TALK of a GAY CHIEF ALAS, | 1568 | 150 |
| | Eleonora Spicer, of Virginia, Thick cane in a tent, | | |
| | Louisa Truxo, of South America, was living in 1780, aged, Famed, | | 175 |
| | Wm. Ellis, of Liverpool, died 16th of August, | | |
| | THICK FACE IN ATOMS, | 1780 | 130 |
| 10 | John Jacobs*, of Mount Jura, in France, Talk of a base dandy, | | |
| | Matthew Tait, of Ayrshire, died on the 12th of February, | | |
| | THICK BONE in the ATHÆNEUM, | 1792 | 123 |
| 12 | John Bancock, a farmer in Devonshire, was alive in 1777, and was | | 1140 |
| | then aged, ADMIRE, | | 134 |
| 13 | Rev. Benj. Harvey, a clergyman of Herkimer County, N. Y., appeared | | TOI |
| 40 | in a Baptist Convention at Brooklyn, May, 1846, aged | | |
| | His life should by some able man be Edited, | | 111 |
| | 116 the showed by some wife man be EDITED, | | TIT |

CURIOUS NUMBERS.

| 1 | How many grains are contained in a bushel of wheat? | |
|---|--|----------|
| | Ans.—Analogy of an easy swiss, | 256,000 |
| 2 | How many bones are there in the human frame? | |
| 3 | How many in each hand? Ans.—Enough, | 28 |
| 4 | What is the pressure of air on every square inch? | |
| | Ans.—It is equal to 15 (Tall) pounds, | 15 |
| 5 | How many pounds of air does Buffon calculate that a middling sized | |
| | man sustains? Ans.—Raise an easy swiss, | 40,000 |
| 6 | How many feet long may a grain of silver be extended? Recess, | 400 |
| 7 | Which is the longest day of the year? Ans.—21st (Noted) day | of June. |

^{*} He travelled from the top of his native mountain in the middle of summer, to Versailles, to return thanks to the National Assembly, for their vote of freedom to him and his countrymen from the Feudal yoke. He was received by the Assembly with great respect, indulged with a chair, and directed to keep his hat on, lest he should take cold.

| 8 | Which is the shortest day. Ans.—21st (Noted) day of December. |
|-----|---|
| 9 | How many books are there in the Old Testament? Ans.—May BE, 39 |
| | How many chapters? Ans.—Puny Boy, 929 |
| | How many verses? Ans.—Numb winter, 23,214 |
| | How many words? Ans.—Laban and Rehoboam, 592,483 |
| | How many letters? Ans.—One conveyed sizes, 2,728,000 |
| | How many books in the New Testament? Ans.—Onega, 27 |
| | How many chapters? Ans.—New ages, 260 |
| | How many verses? Ans.—Gay plough boy, 7,959 |
| | How many words? Stiff tin loom, 181,253 |
| | How many letters? Ans.—Tame foe to move us, 138,380 Which is the middle chapter, and the shortest, in the Bible? |
| 10 | Ans.—The 117th (Stout key) Psalm. |
| 20 | Which is the middle verse in the Bible? |
| | Ans.—The 8th (FINE) verse of the 118th (AUDITIVE) Psalm. |
| 21 | Which is the shortest verse in the Bible? |
| | Ans.—St. John's Gospel, 11th (Tidy) chapter, and 35th (small) verse. |
| 22 | Which verse in the Bible has all the letters of the Alphabet in it? |
| | Ans. Ezra, the 7th (Curlous) chapter, and 21st (Noted) verse. |
| 23 | What two chapters in the Old Testament are precisely alike. |
| | Ans.—2d book of Kings, 19th (Type) chapter, and the 37th (Mock) chapter |
| 0.4 | of Isaiah. |
| 24 | How many persons are born and die every hour? |
| | Ans.—Mice of a size, 3,000 |

Note 1.—The learner will, doubtless, often be troubled to see any possible connection between the indicating words, and the facts for which they stand for of figures; but as he repeatedly draws upon the ingenious resource of his own mind, he will find the means growing more abundant to construct a sentence that will make apparent incongruities give place to that, which will be made to appear very appropriate.

But should there be some stubborn cases, the pupil should feel himself at full liberty to make new *indicating words*, which should first be done on a slate, or slip of paper, and then placed with a pencil or pen, on the margin of the page,

which is left amply wide for that purpose.

When errors are found in the indicating words, (which have crept into this work from the hasty manner in which the proof has been read,) the pupil should at once, displace them with right words, for which a fair compensation will be found in the mental labor.

Note 2.—After most of Part First of this book was printed, we received a work from New York, by "Pliny Miles, Esq., Corresponding Member of the New York Historical Society," entitled, "American Phreno-Mnemotechny."

Like Prof. Gouraud, to whom he gives the credit of having been "his pupil," he has nothing to do with symbols, and confines his work exclusively to several applica-tions of the figure alphabet. From this work, as also from Gouraud's, we have enriched the section entitled "deaths and ages of celebrated men, living in different ages of the world," by introducing several distinguished men, whose names were not in the collection we had previously arranged for this chapter.

PART SECOND.

"Lulled in the countless chambers of the brain, Our thoughts are linked by many a hidden chain; Awake but one, and lo! what myraids rise, Each stamps its image as the other flies."

HAVING attended to our figure alphabet, and its application to numbers, on several branches of useful knowledge, we shall now see how far rules can be made available in mnemonizing words and topics found in

catalogues, nomenclatures, technicalities, prose and poetry.

The means we have for remembering whatever we see or hear, is great or small, weak or strong, just in proportion to the strength of the impression it makes on the mind. All power of recollection, therefore, may be resolved into the vividness of an impression. Our inquiry then ought to be directed to the surest method of deriving the most vivid impression of all that we wish to retain.

Most writers* on the art of memory, whose works have come to our knowledge, have recognized the power which is to be derived from Locality and Association combined, in making vivid impressions on our retentive faculties. [See 8th page of the Introduction.]

The advantages to be derived to the intellect generally, and to the retentive faculties in particular, in the increase of their elasticity and strength, by practicing on a system of localizing our thoughts in Places, (familiarized for that purpore,) and by associating ideas which have no form, such as love, pride, malice, or any other set of ideas, with objects of sense (symbols,) is known only to those who attend to it.

In confirmation of this fact, we will subjoin an extract from an article which appeared in the Monthly Magazine (Eng.) for September,

1807, over the signature of 'Common Sense.'

"Any person who wishes to try an experiment on the power of association, need only make use of the succession of rooms, closets, staircases, landing places, and other remarkable spots or divisions of his own house, with all the parts of which he may be supposed to be very

^{*} Excepting Prof. Gouraud, and those who belong to his school. Prof. Miles, in his "Phreno-Mnemotechny," passes over Localities in silence, both of whom attend only to the application of the Figure Alphabet.

familiar. Let him apply any word or any idea to the several parts of the house, in any determined order of their succession, and he will find it almost impossible, in recalling the same order of the parts of the house, not to associate the idea or word which he had previously annexed to each part. Thus for example, a person may learn the succession of the kings of England in ten minutes, by annexing the names of each succeeding monarch to the successive rooms, closets, and principal parts of his own house, beginning at the upper story, and regularly descending; or, at the lower story, and regularly ascending.

"Any other permanent and familiar class of objects, will in general, answer the purpose better than the rooms of the house. I was myself educated in the vicinity of Oxford street; and streets running out of that street north and south, (beginning at Charles street, Soho square, and proceeding to Dean street, Chapel street, and so on to Park lane, and down on the other side to Rathbone place, and Hanway yard,) are the permanent and familiar set of objects which I make use of for my own purpose of successive association. The counties in England, the kingdoms and the countries throughout the world, the villages, and and other objects on a great road, or the streets of a city, are all well suited to this business of association; and either of them may be taken indifferently by various persons according to their acquaintance with them. The greater the variety of ideas connected with this set of objects, which may be called the associating key, the more easy and the more certain is the power of recollection.

"If I do not hazard a charge of egotism, I shall mention, as illustrative facts, that by this new art I once committed to memory, in a single morning, the whole of the propositions contained in the three first books of Euclid, and with such perfection, that I could for years afterwards specify the number of the book on hearing the proposition named, and could recite the proposition on hearing the number and the book; and I have frequently, in mixed companies, repeated backwards and forwards from fifty to an hundred unconnected words, which have been but once called over to me. I may also add, to prove the simplicity of the plan, that I taught two of my own children to repeat fifty unconnected words in a first lesson, of not more than half an hour's continuance."

In providing a convenient field of Localities, we shall introduce the two rooms, as divided into one hundred 'compartments,' by Feinagle—in which we shall locate 100 objects of sense, which will be used as prompters and symbols in a variety of applications, as will be seen in the following pages.

100 PROMPTERS AND SYMBOLS.

In the following list of prompters and symbols it will be noticed that they consist of an adjective, (the qualifying word,) and noun, the name of some thing—and that the adjective begins with the articulation, the numerical value of which points out the numerical order of the symbol, and the locality in the room, to which it belongs. Thus, T in Stout Gig, is 1, assigning the Gig to the first place; N in New Cricket is 2, which assigns the Cricket to two's place. When number 10 is reached, it will require two articulations to indicate the numerical order; thus, in Dozing Chair, D Z, 10—assigning the Chair to ten's place, and so on. (See diagrams of the two Rooms.)

| VIIC | LIST OF | F P | ROMPTORS AND SY | YMB | OLS. |
|------|-----------------------------|-----|-----------------------------|-----|---------------------------------|
| 1 | Stout Gig. | 35 | Small Cloak, | 68 | Shivered Calico. |
| | New Cricket. | | Missionary Man. | 69 | Cheap Wheat. |
| 3 | Modern Urn. | | Mock Diadem. | | Costly Mt. Auburn. |
| 4 | Rich Banner. | 38 | Moving Tumbler. | 71 | Quiet Tomb. |
| 5 | Long Girdle. | 39 | Maple Apple. | 62 | Cunning Squirrel. |
| 6 | Chief Judge. | 40 | Rosy Tobacco. | 73 | Common Deluge. |
| 7 | Curious Dog. | 41 | Red Trumpet. | 74 | Queer Mouse. |
| 8 | Fine Cane. | 42 | Running Pony. | 75 | Clothes Basket. |
| 9 | Bold Puma. | 43 | Roman Groom. | 76 | Kitchen Room. |
| | Dozing Chair. | 44 | Rare Spool. | 77 | Quick Tiger. |
| 11 | Tidy Quail. | 45 | Real Shoe. | 78 | Quivering Lily. |
| | Tiny Quack. | | Wretched Fence. | 79 | Capacious Asia. |
| | Tame Parrot. | | Ragged Net. | | Fuzzy Palm-leaf. |
| | Daring Lion. | | Roving Army. | | Foot Organ. |
| | Tall Broom. | | Ripe Oyster. | | Fancy Comb. |
| | Dutch Barrel. | | Lazy Came!. | | Famed Mt. Tabor. |
| | Decorated Church. | | Little Watch. | | Fair Jew. |
| | Tough Jug. | | Lean Elephant. | | Foolish Peacock. |
| | Tabby Cat. | | Luminous Lamp. | | Fashionable Sofa. |
| | Nice Game. | | Large Drum. | | Vigorous Crane. |
| | Noted Bear. | | Loyal Tour. | | Vivid Water. |
| | Known Bottle. | | Lashed up Coach. | | Vaporous Umbrella. |
| | Nameless Brush. | | Lucky Lark. | | Passable Ledge. |
| | Narrow Musket. | | Lively Fife. | | Beautiful Rose. |
| | Null Horn. | | Liberty Cap. | | Bending Grain. |
| | New-shaped Loom. | | Chosen Mirror. | | Bemoaning Lamb. |
| | Naked Ladder. | | Shot Eagle. | | Bright Fire. |
| | Novel Goldfinch. | | Shining Blue-Jay. | | Blunt Awl. |
| | Noble House. | | Gem Book. Cheerless Nun. | | Patched Rug. |
| | Mossy Boat. Metallic Spoon. | | Shallow Freedom. | | Begging Widow. Befitting Crown. |
| | Mean Guitar. | | Judge Moor. | | Poppy Blossom. |
| | Mimic Wheel. | | Chalk Pail. | | Decisive Wire. |
| | Marble Bench. | 01 | Chark Lan. | 100 | DOCUSIVE WITE. |
| 0.4 | Traible Delicit. | | | | |

METHOD OF COMMITTING THE PROMPTERS AND SYMBOLS, BY ESTABLISHING FICTITIOUS RELATIONS BETWEEN THEM.

The foregoing symbols must be made perfectly familiar. It is from familiarity that the power which they confer in memorizing, can be derived. A fundamental principle in memorizing by symbols, is to transfer new and invisible ideas, or anything of difficult recollection, to another, perfectly familiar set of ideas or symbols, which should be objects of sense, and therefore of easy recollection,—if the relation be well established between the new idea and the familiar one, (the symbol,) then the old idea will prevent us from missing to recollect the new idea, which might otherwise be of very difficult recollection.

For the sake then, of making our promptors and symbols perfectly

familiar, we shall adopt the following method of learning them.

We will first divide them into ten series, giving to each series a name, which shall correspond in sound to their numerical order. The first series, embracing the nine digits, we shall head with 0, (zero.) The series which commences with the tenth symbol will be 1, the 20th, 2, the 30th, 3, and so on. To these figures we shall assign a personification which shall be similar in sound. Thus, for 0, (zero) Hero; for 1, Wanderer; for 2, Tooth extractor; for 3, Tree planter; for 4, Fortune teller; for 5, Fifer; for 6, Sexton; for 7, Seaman; for 8, Hatter; for 9, Neighbor.

We will then establish a relation between the symbols, and these personifications, which will hereafter be called Memorizers, so that the symbol and prompters both can be remembered in their order, even without translating the adjective, or prompter, into figures, thus—

The Hero stept into his Stout Gig, placed his feet on a New Cricket, set by his side a Modern Urn, and rode off like a Chief Judge; his Curious Dog followed, having in his mouth a Fine Cane,

and holding up his head like a Bold Puma.

A Wanderer rose from his Dozing Chair, gave chase to a Tidy Quail, and met a Tiny Quack, who had a Tame Parrot, pursuing a Daring Lion, having in his hand a Tall Broom, with which he drove him against a Dutch Barrel, and rolled it against a Decorated Church, and broke a Tough Jug, and frightened up a Tabby Cat.

A TOOTH EXTRACTOR, wanting some Nice Game, went in pursuit of a Noted Bear; to carry some water with him, he took a well Known Bottle, on the nose of which he tied a Nameless Brush, shouldered his

Narrow Musket on which he hung his Nullifying Horn. and passing by a large New-shaped Loom, against which leaned a Naked Ladder, from the top of which he shot a Novel Goldfinch, and returned to his Noble House.

A TREE PLANTER stepped into his Mossy Boat, and commenced playing with a Metallic Spoon on a Mean Guitar, which made a noise like a Mimic Wheel; He then took his seat on a Marble Bench, laid by his side a Small Cloak, and commenced conversing with a Missionary Man about a Mock Diadem, which had on it a Moving Tumbler, containing a Maple Apple.

A FORTUNE TELLER wanting some Rosy Tobacco, blew his Red Trumpet, mounted his Running Pony, and rode off like a Roman Groom, with a Rare Spool in his Real Shoe; he then mounted a Wretched Fence, became entangled in a Ragged Net, and cried out for aid to a

Roving Army, who were in pursuit of a Ripe Oyster.

A FIFER mounted his Lazy Camel, having in his pocket a Little Watch, and gave chase to a Lean Elephant; he then lit his Luminous Lamp, and began to play upon a Large Drum—and going on his Loyal Tour, ran against a Lashed-up Coach, started up a Lucky Lark, broke his Lively Fife, and lost his Liberty Cap.

A Sexton stood before his Chosen Mirror, on one corner of which was the picture of a Shot Eagle, on the other a shining Blue-jay reading a Gem Book about a Cheerless Nun, who obtained a Shallow Freedom by the aid of Judge Moore, who had a Chalk Pail, dressed in

Shivered Calico, sowing Cheap Wheat.

A SEAMAN went to Costly Mt. Auburn, to look at a Quiet Tomb, where he saw a Cunning Squirrel playing with a Queer Mouse, which he caught in a Clothes Basket, and took it to a Kitchen Room, and put it with a Quick Tiger, and fed them with a Quivering Lily, which came from Capacious Asia.

A HATTER put on his Fuzzy Palm-leaf, took his Foot Organ, the top of which resembled a Fancy Comb, and went to Famed Mt. Tabor. where he met a Fair Jew, who had a Foolish Peacock, sitting on a Fashionable Sofa, by the side of a Vigorous Crane, drinking Vivid

Water, covered with a Vaperous Umbrella.

A Neighbor sitting on a Passable Ledge, looking at a Beautiful Rose, which grew in the Bending Grain, saw a Bemoaning Lamb, scorched with a Bright Fire; returning home, he took a Blunt Awl, threw it upon a Patched Rug, which belonged to a Begging Widow, and hit a Befitting Crown, on which lay a Poppy Blossom, fastened with a Decisive Wire.

Note.—Each pupil may feel at full liberty to establish relations differently, making such sentences as will best suit his own taste. But the foregoing relations, carefully read over a few times, will place the symbols completely at his control.

When the pupil wishes to determine the number of any symbol, he should articulate the adjective with which it stands connected, and it will be at once determined; thus, should it be asked what number is the Tidy Quail, or Tiny Quack, he is to articulate Te De, which makes 11; or Te Ne, 12; or Te Me, 13, which will bring Tame Parrot, and so on.

In committing the 100 towns, and all the succeeding sections, the pupil should seek some point of analogy, or similarity of sound, by which he may establish a relation between the symbol and the fact or name to be remembered. For example: if I wish to remember that Philadelphia is the second city in population, I will either locate the New Cricket in some place in that city, or seek some historical rem-

| | SECOND | 20. Nice Game. | WALL. | | | | |
|---|--------------------------|--|---------------------------|--------------------------|--------------------------|--------------------------|-----------------------|
| | 1. Noted Bear. | 2. Known Bottle. | 3. Nameless Brush. | · | | | |
| | 4. Narrow Musket. | 5. Null Horn. | 6. New shaped Loom. | | | | |
| | 7. Naked Ladder. | 8. Novel Goldfinch. | 9. Noble House. | | | | |
| WALL, 3. Tame Parrot. 6. Dutch Barrel. 9. Tabby Cat. | 1. Stout Gig. | 2. New Cricket. | 3. Modern Urn. | 7. Mock Diadem. | 4. Marble Bench. | 1. Metallic Spoon. | THIRD |
| 10. Dozing Chair. 2. Tiny Quack. 5. Tall Broom. 8. | 4. Rich Banner. | 5. LongGirdle. (Floor.) 0 Hero. | 6. Chief Judge. | 8. Moving Tumbler. | 5. Small Cloak. | 9. Mean Guitar. | 30. Mossy Boat. |
| FIRST Tidy Quail. A. Daring Lion. 7. Decorated Church. | 7. Curious Dog. | 8. Fine Cane. | 9. Bold Puma. | 9. Maple Apple. | 6. Missionary Man. | 3. Mimic Wheel. | WALL. |
| | 9. Ripe Oyster. | 8. Roving Army. | 7. Ragged Net. | | | | |
| | 6. Wretched Fence. | 5. Real Shoe. | 4. Rare Spool. | | 1 10 | | |
| | 3. Roman Groom. | Laning Rony. | Red Trumpet. | | Ceil La: Cam | ing. | |
| | MYFF* | 40. Rosy Tobacco. | FOURTH | | | | |

iniscence about the place, from which I can draw a picture upon my retentive faculties. Take New York, as an instance, which was named from the Duke of York. I will then see the Duke of York riding through the city in a Gig, taking notice of the immensity of its improvements; or, if it be Philadelphia, I will see Wm. Penn, its venerable founder, seated on a Cricket, drawing the plan of the city; or Baltimore, I will place the Urn on Lord Baltimore's table, after whom the city was named. I will unfurl the Banner on the State House at New Orleans, to commemorate the victorious battle, fought by General Jackson, in our last war with Great Britain, on the 8th of January, 1815—thus marking it with the 4th symbol, as the 4th city in population: and so on.

| SEVENTH | | | | 70. Costly Mt.Auburn. | WALL. | | | | | | |
|---------|--------------------------|---------------------------|--------------------------|-----------------------------|--------------------------|----------------------------------|--------------------------|-----------------------------|----------------------------|---------------------------|-----------------------|
| | | | | | 1. Quiet Tomb. | 2. Cunning Squirrel. | 3. Common Deluge. | | | | |
| | | | , | | 4. Queer Mouse. | Clothes Basket. | 6. Kitchen Room. | | | | |
| | | | | | 7. Quick Tiger. | Quivering Lily. | 9. Capacious Asia. | | | | |
| | WALL. | 3. Gem Book. | 6. Judge Moor. | 9. Cheap Wheat. | 1. Little Watch. | 2. Lean Elephant. | Luminous Lamp. | 7. Vigorous Crane. | Fair Jew. | 1. Foot Organ. | EIGHTH |
| | 60. Chosen Mirror. | 2. Shining Blue jay | 5. Shallow Freedom | 8. Shivered Calico. | 4. Large Drum. | 5. (FifthWall) Loyal Tour. | Lashed up Coach. | 8. Vivid Water. | 5. Foolish Peacock. | 2. Fancy Comb. | 80. Fuzzy Leaf. |
| | SIXTH | 1. Shot Eagle. | 4. Cheerless Nun. | 7. Chalk Pail. | 7. Lucky Lark | 8. Lively Fife. | 9. LibertyCap. | 9. Vaporous Umbrella. | 6. Fashionable Sofa. | 3. Famed Mt. Tabor. | WALL. |
| | | | | | Poppy Blossom. | 8. Befitting Crown. | 7. Begging Widow. | | | | |
| | | | | | 6. Patched Rug. | .twA inuta | .4. Bright Pire. | | 1 | | |
| | | | | | 3, Bemoaning Lamb, | .g Bending Grain. | Beantiful Rose. | | Ceil | ing. | |
| | | | | | MYFF' | 90. Passable Ledge. | HLNIN | | | | |

EXPLANATION OF THE ROOMS.

Here are two rooms; one is intended to be regarded as directly over the other. The first should be called the Lower, and the second the Upper Room, on the floor, four walls, and ceiling of which, are

50 places.

The learner should familiarize the position of the 9 places and numbers on the floor. This he will do by observing that there are three rows of places, and three places in a row. It should be noticed that the 5th place comes in the centre. If the pupil will step upon this place, and point to the corner where the 1st place is situated, and then to the corner where the 9th is situated, and then ask himself, "How many are 1 and 5 and 9, the answer will be 15. In like manner he may point in four different directions, and get the same answer. When the position of the 9 places in the floor is clearly understood, the pupil will see the same number of places on the same position on each of the four walls, making in all 45 places. This will bring the

fives, or 5th places, all directly opposite each other.

The pupil is to regard the rooms presented in the diagrams, with the walls in a prostrate condition. If he were to cut round the outlines of these walls with the point of a penknife, and raise them up so as to make a square room, and himself standing on the 8th place, with his face to the north, he would find the 9th place at his right on the floor, where he sees the Bold Puma located, and on his left will be the 1st wall, over which is a square, or strap, which comes upon the ceiling, which will be the 10th place. It will be particularly observed, that the 10th place, in which is located the Dozing Chair, is not on the 1st wall, but on the ceiling, directly over 12; the second place on the 1st wall, and that the 11th place in which the Tidy Quail is located, occupies the 1st place on the 1st wall. It will be further observed, that the first articulation or consonant sound in the numerical Adjectives, points out the locality, or place to which each symbol belongs on the floor, but when the 10th place is reached, it requires two articulations, hence De Ze in Dozing, and Te De in Tidy, for 10 and 11. The decimals therefore, 10, 20, 30, 40, will be found over each wall, and 50 in the centre of the ceiling, directly over 5 on the floor.

The 50th place in which the Lazy Camel is located, is the highest number in the Lower Room. The Upper Room is an exact pattern of the 1st one, with the exception, that the floor of the 2d Room is called the 5th wall, and the 6th comes directly over the 1st wall of the 1st Room. These 100 places must be made so familiar with one glance of thought, that they will stand in their order before the "mind's eye." This will be done, if the pupil will drill on them, in a few moments,

by asking himself, Where is the 29th place? the 15th? the 36th? the 48th? the 56th? the 62d? the 74th? the 80th? the 99th? It will be seen that the left hand figure answers for the wall, and the right hand figure for the place. Thus, the 29th place is on the 2d wall and the 9th place; the 15th is on the 1st wall, 5th place. The figures, therefore, in which a question is asked, contains the answer.

CHRONOLGICAL TABLE.

IN WHICH THE DAY OF THE WEEK IS DETERMINED WHEN THE DAY OF THE MONTH AND YEAR IS GIVEN—AND THE DAY OF THE MONTH, WHEN THE YEAR AND MONTH ARE KNOWN, WHICH SERVES AS A PERPETUAL ALMANAC.

RULE.

1st. Set down the day of the month in which any event occurred. 2nd. The number for the month, each of which are as follows;

| November, February, March, | 0 | October and January, | - | 4 |
|----------------------------|---|----------------------|---|---|
| June, | 1 | May, | - | 5 |
| September and December, | 2 | August, | - | 6 |
| April and July, | 3 | | | |

3d. The number for the year will be found in the terminating articulation of each symbol. Thus, le in Girdle, ne in Cane, se in House, denote the number which answers to the year—the hundred symbols answering to the years of a century for two thousand years.

4th. Set down the number for the century, which are as follows:

| For the 1st Century, | 2 | For the 12th century, | 5 |
|----------------------|---|-----------------------|---------|
| 2d | 1 | 13th | 4 |
| 3d | 0 | 14th | 3 |
| 4th | 6 | 15th | 2 |
| 5th | 5 | 16th | 1 |
| 6th | 4 | 17th | 0 O. S. |
| 7th | 3 | 17th | 4 N.S. |
| 8th | 2 | 18th | 2 |
| 9th | 1 | 19th | 0 |
| 10th | 0 | 20th | 5 |
| 11th | 6 | | |

Add these numbers together, and divide them by the number of the days in a week—7. If there be no remainder, the day of the week will be Saturday. If there is a remainder it will denote the day of the week corresponding to the number left.

EXAMPLE.

The fourth day of . . 4

July, . . 3

1844,—44th symbol is Spool, . . 5

19th Century, . . 0

7)12—5 rem. [Thursday.]

Note.—If the date falls on January or February of Leap year, the day of the week falls back to the preceding day. Thus, an event occurring on the 1st of January, 1844, will appear in figures to occur on the 2d. Every year that can be divided by 4 without a remainder, is leap year.

To find the day of the month, some day within a week of the time sought for must be *supposed*, and then proceed to prove by the foregoing rule, what day of the month the supposed day is, then reckon from that day to the present one, thus: I am writing this rule on the 8th day of June, 1846. If I were uncertain as to what day of the month it is, I might *suppose* it to be the 6th, for instance. I can at once determine whether it be the 6th by applying the rule, thus:

- 6 the day of the month supposed.
- 1 the number for the month,—June.
- 0 the terminating articulation in the 46th symbol—Se in Houses.
- 0 The number for the 19th century.

7 the numbers added, and divided by 7,-0 remains.

And nothing remains, which proves that the 6th day was Saturday. If Saturday was the 6th, then to-day being Monday, is the eighth. Familiarity with the tables in this rule is necessary to make it available, and when all parts are familiarized, the process can be gone through with mentally much more rapidly than in any other way. The author does not trouble himself with an almanac from one year's end to another, to determine the day of the month, the rule being quite sufficient for that purpose.

Note.—The advantages of this rule to bankers, and all business men, who have frequent occasion to date their papers on a future given day, will be fully realized, especially if they do not wish them to fall due on the Sabbath, for the rule is correct to the end of the 20th century. And the gratification it sometimes affords, to be able to determine the day of the week on which certain events occurred in the history of past centuries, is also apparent.

THE MEMORIZING OF ISOLATED WORDS.

ONE HUNDRED CITIES AND TOWNS IN THE UNITED STATES, ARRANGED IN THE ORDER OF THEIR POPULATION, ACCORDING TO THE CENSUS OF 1840.

Each town is to be memorized on the symbol of the same number, principally by locating the symbol in the town. The population of towns presents so much variation each year, that they are not introduced.

| 1 | New York, N. Y. | 35 Poughkeepsie, N. Y. | 68 Warwick, R. 1. |
|----|--------------------|-------------------------|-------------------------|
| | Philadelphia, Pa. | 36 Smithfield, R. I. | 69 Portsmouth, Va. |
| | Baltimore, Md. | 37 Hartford, Ct. | 70 Dover, N. H. |
| | New Orleans, L. A. | 38 Lynn, Mass. | 71 Plattsburg, N. Y. |
| | Boston, Mass. | 39 Lockport, N. Y. | 72 Augusta, Ga. |
| | Cincinnati, O. | 40 Detroit, Mich. | 73 Lynchburg, Va. |
| | Brooklyn, N. Y. | 41 Roxbury, Mass. | 74 Gloucester, Mass. |
| | Albany, N. Y. | 42 Nantucket, Mass. | 75 Thomaston, Me. |
| | Charleston, S. C. | 43 Newburg N. Y. | 76 Cleveland, O. |
| | Washington, D. C. | 44 New Brunswick, N. J. | 77 Dayton, O. |
| | Providence, R. I. | 45 Bangor, Me. | 78 Nashua, N. H. |
| | Louisville, Ky. | 46 Alexandria, D. C. | 79 Columbus, O. |
| | Pittsburg, Pa. | 47 Lancaster. Pa. | 80 Harrisburg, Pa. |
| | Lowell, Mass. | 48 Reading, Pa. | 81 Kingston, N. Y. |
| | Rochester, N. Y. | 49 Cambridge, Mass. | 82 Rome, N. Y. |
| | Richmond, Va. | 50 Wilmington, Del. | 83 Hudson, N. Y. |
| | Troy, N. Y. | 51 Newport, R. I. | 84 Auburn, N. Y. |
| | Buffalo, N. Y. | 52 Portsmouth, N. H. | 85 Canandaigua, N. Y. |
| | Newark, N. J. | 53 Wheeling, Va. | 86 Ithaca, N. Y. |
| 20 | St. Louis, Mo. | 54 Taunton, Mass. | 87 Marblehead, Mass. |
| | Portland, Me. | 55 Patterson, N. J. | 88 New London, Ct |
| 22 | Salem, Mass. | 56 Worcester, Mass. | 89 Catskill, N. Y. |
| 23 | New Haven, Ct. | 57 Norwich, Ct. | 90 Augusta, Me. |
| 24 | Utica, N. Y. | 58 Georgetown, D. C. | 91 Plymouth, Mass, |
| 25 | New Bedford, Mass. | 59 Mt. Pleasant, N. Y. | 92 Andover, Mass. |
| 26 | Mobile, Ala. | 60 Middletown, Ct. | 93 Steubenville, O. |
| 27 | Charlestown, Mass. | 61 Frederictown, Md. | 94 Hagarstown, Md. |
| 28 | Savannah, Ga. | 62 Newburyport, Mass. | 95 Bath, Me. |
| 29 | Petersburg, Va. | 63 Seneca, Mass. | 96 Syracuse, N. Y. |
| 30 | Salina, N. Y. | 64 Lexington, Ky. | 97 Williamsburg, N. Y. |
| 31 | Springfield, Mass. | 65 Nashville, Tenn. | 98 Middleborough, Mass. |
| 32 | Norfolk, Va. | 66 Schenectady, N. Y. | 99 Gardiner, Me. |
| 33 | Fishkill, N. Y. | 67 Fall River, Mass. | 100 Watertown, N. Y. |
| 34 | Alleghany, Pa. | | |

CAPITALS OF AMERICA AND EUROPE.

| 1 Kingston, Cap. Canada. | .13 | Santiago, Chili. | 25 | Munich, Bavaria. |
|--------------------------|-----|-------------------------|------------|-------------------------|
| 2 Washington, U. S. | 14 | Buenos Ayres, La Plata. | 26 | Berne, Switzerland. |
| 3 Mexico, Mexico. | 15 | Stockholm, Sweden. | 27 | Paris, France. |
| 4 St. Salvador, Gua. | 16 | Copenhagen, Denmark. | 28 | Madrid, Spain. |
| 5 Bogota, New Grenada. | 17 | St. Petersburg, Russia. | 2 9 | Lisbon, Portugal. |
| 6 Caraccas, Venezuela. | 18 | Hanover, Hanover. | 30 | Turin, Sardinia. |
| 7 Quito, Equador. | 19 | London, England. | 31 | Florence, Tuscany. |
| 8 Lima, Peru. | 20 | Amsterdam, Holland. | 32 | Rome, Papal States. |
| 9 Chuquisaca, Bolivia. | 21 | Brussels, Belgium. | 33 | Naples, Naples. |
| 10 Rio Janeiro, Brazil. | 22 | Berlin, Prussia. | 34 | Vienna, Austria. |
| 11 Assumption, Paraguay. | 23 | Dresden, Saxony. | 35 | Constantinople, Turkey. |
| 12 Montevideo, Uraguay. | 24 | Stuttgard, Wurtemburg. | 36 | Athens, Greece. |

UNIVERSITIES AND COLLEGES IN THE UNITED STATES.

To be memorized in the same manner as the preceding section.

Should the student form an indicating word for the date of the founding of these institutions, the 1 thousand might be understood and not expressed.

| | | When founded. |
|----|---------------------------------|-----------------------------------|
| 7 | Bowdoin, | Brunswick, Me. Exam: Cowper, 1894 |
| | Waterville, | Waterville, Me. 1820 |
| | Dartmouth, | Hanover, N. H. 1769 |
| | University of Vermont, | Burlingtón, Vt. 1791 |
| | Middlebury, Vt. | Middlebury, Vt. 1800 |
| | Norwich University, | Norwich, Ct. 1834 |
| | Harvard University, | Cambridge, Mass. 1638 |
| | Williams, | Williamstown, Mass. 1793 |
| | Amherst, | Amherst, Mass. 1821 |
| | Brown University, | Providence, R. I. 1764 |
| | Yale, | New Haven, Ct. 1700 |
| | Washington, † | Hartford, Ct. 1824 |
| | Wesleyan University, | Middletown, Ct. 1831 |
| | Columbia,‡ | New York, N. Y. 1854 |
| | Union, | Schenectady, N. Y. 1795 |
| | Hamilton. | Clinton, N. Y. 1812 |
| | Hamilton Lit. and Theological,* | Hamilton, N. Y. 1819 |
| | Geneva,† | Geneva, N. Y. 1123 |
| | University of New York, | New York, N. Y. 1831 |
| | College of New Jersey, | Princeton, N. J. 1746 |
| | Rutgers, | New Brunswick, N. J. 1770 |
| | University of Pennsylvania, | Philadelphia, Pa. 1755 |
| | Dickinson,‡ | Carlisle, Pa. 1783 |
| 24 | Jefferson, | Canonsburg, Pa. 1802 |
| 25 | Washington, | Washington, Pa. / 1806 |
| 26 | Alleghany,‡ | Meadville, Pa. 1815 |
| | Pennsylvania, | Gettysburg, Pa. 1832 |
| | Lafayette, | Easton, Pa. 1832 |
| | Marshall, | Mercersburg, Pa. 1836 |
| | Newark, | Newark, Del. 1833 |
| | St. Johns, | Annapolis, Md. 1784 |
| | St. Mary's,§ | Baltimore, Md. 1799 |
| | Mount St. Marys, | Emmetsburg, Md. 1830 |
| | Georgetown, | Georgetown, D. C. 1789 |
| | Columbian,* | Washington, D. C. 1821 |
| | William and Mary's,† | Williamsburg, Va. 1693 |
| | Hampden-Sidney, | Prince Ed. Co. Va. |
| | Washington, | Lexington, Va. 1812 |
| | University of Virginia, | Charlottsville, Va. 1819 |
| | Randolph-Macon,‡ | Boydton, Va. 1832 |
| | Emory and Henry, | Glade Spring, Va. 1839 |
| | Rector,* | Prouty Town, Va. 1839 |
| 43 | University of North Carolina. | Chapel Hill, N. C. 1789 |

Remarks.—The Colleges marked thus (*) are under the direction of the Baptists; thus (†) Episcopalians; thus (‡) Methodists; thus (§) Catholics.

| | | When founded |
|--|--|-----------------------|
| 44 Davidson, | Mecklenburg Co. N. C. | When founded. 1838 |
| 45 Wake Forest, | Wake Forest, N. C. | 1838 |
| 46 Charleston, | Charleston, S. C. | 1795 |
| 47 South Carolina, | Columbia, S. C. | 1804 |
| 48 Franklin, | Athens, Ga. | 1785 |
| 49. Oglethrope, | Midway, Ga. | 1836 |
| 50 Emory,‡ | Oxford, Ga. | 1837 |
| 51 Mercer University,* | Penfield, Ga. | 2000 |
| 52 Christ Col. and Episcopal inst. | Montpelier, Ga. | 1839 |
| 53 University of Alabama, | Tuscaloosa, Ala. | 1828 |
| 54 La Grange, | La Grange, Ala. | 1831 |
| 55 Spring Hill,§ | Spring Hill, Ala. | 1830 |
| 56 Centenary, | Brandon Springs, Miss. | 1841 |
| 57 Oakland, | Oakland, Miss. | 1831 |
| 58 Louisiana, | Jackson, La. | 1825 |
| 59 Jefferson, | Bringiers, La. | I831 |
| 60 St. Charles, | Grand Coteau, La. | |
| 61 Baton Rogue, | Baton Rouge, La. | 1838 |
| 62 Franklin, | Opelousas, La. | 1839 |
| 63 Greenville, | Greenville, Tenn. | 1794 |
| 64 Washington, | Washington Co. Tenn. | 1794 |
| 65 University of Nashville, | Nashville, Tenn. | 1806 |
| 66 East Tennessee, | Knoxville, Tenn. | 1807 |
| 67 Jackson, | Near Columbia, Tenn. | 1830 |
| 68 Transylvania, | Lexington, Ky. | 1798 |
| 69 St. Josephs,§ | Bardstown, Ky. | 1819 |
| 70 Centre, | Danville, Ky. | 1822 |
| 71 Augusta,‡ | Augusta, Ky. | 1825 |
| 72 Cumberland, | Princeton, Ky. | 1825 |
| 73 Georgetown,* | Georgetown, Ky. | 1829 |
| 74 Bacon, | Harrodsburg, Ky. | 1836 |
| 75 St. Mary's,§ | Marion Co. Ky. | 1837 |
| 76 University of Ohio, | Athens, Ohio, | 1821 |
| 77 Miami University, | Oxford, Ohio, | 1809 |
| 78 Franklin, | New Athens, Ohio, | 1825 |
| 79 Western Reserve, | Ravenna, Ohio, | 1826 |
| 80 Kenyon,† | Gambier, Ohio, | 1826 |
| 81 Granville,* | Granville, Ohio, | 1832 |
| 82 Marietta, | Marietta, Ohio, | 1832 |
| 83 Oberlin Institute, | Oberlin, Ohio, | 1834 |
| 84 Cincinnati, | Cincinnati, Ohio, | 1819 |
| 85 Woodward, | Cincinnati, Ohio, | 1991 |
| 86 St. Zavier College,§ | Cincinnati, Ohio, | 1831 182 7 |
| 87 Indiana, 88 St. Gabriel's College, | Bloomington, Ind. | 1027 |
| 89 South Hanover, | Vincennes, Ind. South Hanover, Ind. | 1829 |
| 90 Wabash, | Crawfordsville, 1nd. | 1833 |
| 91 Indiana Asbury University,§ | Crawfordsville, Ind. | 1839 |
| 92 Illinois, | Jacksonville, Ill. | 1829 |
| 93 Shurtleff,* | Upper Alton, Ill. | 1835 |
| 94 Mc. Kendree, | Lebanon, Ill. | 1834 |
| 95 Mc Donough, | Macomb, Ill. | 1837 |
| 96 University of St. Louis,§ | St. Louis, Mo. | 1829 |
| 97 Kemper College,† | St. Louis, Mo. | 20.40 |
| 1 - 0 - 71 | , | |

| | | When founded. |
|--------------------------|---------------------|---------------|
| 98 St. Mary's,§ | Barrens, Mo. | 1830 |
| 99 Marion, | Marion, Mo. | 1831 |
| 100 Missouri University, | Columbia, Mo. | 1840 |
| 101 St. Charles, | St. Charles, Mo. | 1839 |
| 102 Fayette, | Fayette, Mo. | |
| 103 Michigan University, | Ann Arbor, Mich. | 1837 |
| 104 Marshall, | Marshall, Mich. | |
| 105 St. Philip's,§ | Near Detroit, Mich. | 1839 |

NAMES OF THE ARTS AND SCIENCES AND TECHNI-CALITIES.

The following words are introduced here, not only for exercise in memorizing isolated words, but with the hope that their perusal may awaken a desire to know their signification, and to study their meaning in the sciences to which they relate:

Should the pupil desire at once to determine the signification of the terms and technicalities, he will find their meaning familiarly explained in Worcester's "Sequel to the Spelling Book," a cheap little school book, of greater worth than many school books of double its size. A common dictionary would hardly answer so good a purpose.

NAMES OF THE ARTS AND SCIENCES.

| | NAMES OF THE ARTS AND SCIENCES. | | | | | | | |
|----|---------------------------------|----|--------------|----|---------------|----|--------------|--|
| 1 | Acoustics | 20 | Dialling | 39 | Jurisprudence | 58 | Pharmacy | |
| 2 | Aeronautics | 21 | Dynamics | 40 | Lithography | 59 | Philology | |
| 3 | Agriculture | 22 | Electricity | | Logic | 60 | Philosophy | |
| | Alchymy | 23 | Elocution | | Magic | | Physic | |
| | Algebra | 24 | Entomology | | Magnetism | | Physics | |
| 6 | Anatomy | | Ethics | 44 | Mathematics | | Physiology | |
| 7 | Archery | 26 | Etymology | 45 | Mechanics | | Pneumatics | |
| 8 | Architecture | | Galvanism | 46 | Metaphysics | 65 | Politics | |
| 9 | Arithmetic | 28 | Geography - | | Meteorology | 66 | Rhetoric | |
| 10 | Astrology | 29 | Geology | 48 | Mineralogy | 67 | Sculpture | |
| 11 | Astronomy | 30 | Geometry | 49 | Mnemonics | 68 | Statics | |
| 12 | Book-keeping | 31 | Geoponics | 50 | Music | 69 | Stenography | |
| 13 | Botany | 32 | Grammar | 51 | Navigation | 70 | Surgery | |
| 14 | Casuistry | 33 | Gymnastics | 52 | Optics | 71 | Tactics | |
| 15 | Chemistry | 34 | Harmonics | 53 | Ornithology | 72 | Theology | |
| | Chirography | 35 | Horology | 54 | Orthoepy | | Topography | |
| 17 | Chronology | 36 | Horticulture | 55 | Orthography | 74 | Trigonometry | |
| 18 | Craniology | 37 | Hydraulics | | Osteology | 75 | Typography | |
| | Dialectics | 38 | Ichthyology | | Pathology | | Zoology | |
| | | | | | 0.0 | | | |

TECHNICAL WORDS, OR THOSE PECULIAR TO THE ARTS AND

| | SCIENCES. NATURAL PHILOSOPHY. | |
|-----------------|---------------------------------|----------------|
| 77 Air gun | 87 Extension 96 Lens | 5 Piston |
| 78 Air pump | 88 Focus 97 Lever | 6 Prism |
| 79 Atmosphere | 89 Force 98 Magnet | 7 Projectile |
| 80 Balloon | 90 Goniometer 99 Micrometer | 8 Pyrometer |
| 81 Barometer | 91 Gravity 100 Microscope | 9 Refraction |
| 82 Cohesion | 92 Hydrometer 1 Mirror | 10 Repulsion |
| 83 Dial | . 93 Impenetrability 2 Momentum | 11 Steelyard |
| 84 Divisibility | 94 Inertia 3 Parachute | 12 Telescope |
| 85 Elasticity | 95 Kaleidoscope 4 Penumbra | 13 Theodolite |
| 86 Equilibrium | | 14 Thermometer |

CHEMISTRY.

| | | | СН | EMIST | RY. | | |
|------|----------------|----------------|---------------|------------|-----------------|-----|-------------|
| 15 | Acid | 29 | Detonation | 42 | Laboratory | 55 | Quicksilver |
| 16 | Alcohol | | Distillation | | Lava | | Radiation |
| | Alembic | | Ductility | | Naphtha | | Saturation |
| | Alkali | 32 | Effervescence | | Nitre | | Solution |
| | Alloy | | Ether | | Nitrogen | | Solvent |
| 20 | Antimony | | Eudiometer | 17 | Oxyde | | Stalactite |
| 20 | Rlow pine | | | 10 | Oxyde | | Steel |
| 21 | Blow-pipe | 90 90 | Evaporation | 40 | Oxygen | | |
| | Brass | | Fermentation | | Pewter | | Sublimation |
| | Calcination | | Fossil | | Phosphorus | | Sulphur |
| | Caloric | | Fusion | | Phosphorescene | | |
| | Carbon | | Gas | | Plumbago | | Tannin |
| | Carbonate | | Gasometer | | Potash | | Verdigris |
| | Crucible | 41 | Granite | 54 | Pyrites | | Vermilion |
| 28 | Crystalization | | | | | 68 | Zinc |
| | | | AST | rrono | MV. | | |
| 60 | Aphelion | 24 | | | Mercury | 12 | Phasis |
| 70 | Appendi | 04 | Ecliptic | | | | Planet |
| 70 | Apogee | | Elongation | | Meridian | | |
| | Axis | | Epact | | Meteor | | Pleiades |
| 12 | Achronycal | | Equator | | Month | | Pole |
| 73 | Apses | | Equinox | | Nadir | | Penumbra |
| | Bissextile | | Earth | | Nebulæ | | Phases |
| | Cancer | | Galaxy | | | | Satellite |
| 76 | Capricorn | | Horizon | | Occultation | 20 | Solstice |
| 77 | Chronometer | 92 | Horologe | | Orbit | 21 | Syzygy |
| 78 | Comet | 93 | Heaven | 8 | Orrery | 22 | Transit |
| 79 | Constellation | 94 | Intercalation | 9 | Observatory | 23 | Uranus |
| 80 | Cynosure | 95 | Jupiter | 10 | Parallax | 24 | Zenith |
| | Disk | | Latitude | 11 | Perigee | 25 | Zodiac |
| 82 | Digit | 97 | Longitude | | Perihelion | 26 | Zone |
| | Eclipse | 98 | Luminary | | | | |
| | | | | ******* | mr aa | | |
| 0101 | | 0.84 | | HEMA | | ~ | |
| 27 | Angle | 37 | Diagonal | | Hypothenuse | | Quotient |
| | Axiom | | Diagram | | Isosceles | | Radius |
| | Chord | | Diameter | | Multiple | | Ratio |
| | Circle | 40 | Digit | | Multiplicand | 62 | Rectangle |
| | Circumference | 41 | Dividend | 52 | Numerator | 63 | Semicircle |
| | Cube | | Divisor | | Octagon | | Sextant |
| 33 | Decagon | 43 | Ellipse | 54 | Parallelogram | 65 | Subtrahend |
| 34 | Degree | 44 | Fraction | 55 | Perimeter | 66 | Superficies |
| 35 | Demonstration | 45 | Globe | 5 6 | Perpendicular | 67 | Tangent |
| 36 | Denominator | 46 | Hemisphere | | Polygon | | Triangle |
| | | | Hexagon | 58 | Quadrant | | Q |
| | | | | | GRAMMAR. | | |
| 00 | A 11 - many | ja/ja , | | | | 00 | Q:17 |
| 69 | Allegory | 77 | Dipthong | | Monosyllable | | Simile |
| | Antepenult | | Emphasis | | Monotony | | Spondee |
| | Antithesis | | Hexameter | | Paraphrase | | Style |
| | Apposition | | Hyperbole | | Parenthesis | | Syllable |
| | Bombast | | Metaphor | | Pentameter | | Synonyme |
| | Cadence | | Metaphrase | | Personflication | 98 | Tautology |
| 75 | Climax | 83 | Metathesis | 91 | Polysyllable | | Tetrameter |
| 76 | Dactyle | 84 | Metonymy | 92 | Punctuation | 300 | Tripthong |
| | | | | | | | |

62 Delegation 63 Democracy 64 Despotism

71 Exchequer 72 Excise

LITERATURE AND BELLES LETTRES.

| 1 | Acrostic | 10 | Comedy | 19 | History | 28 | Prologue |
|----|---------------|-------|--|------|---------------|----|---------------|
| | Anagram | 11 | Dialect | | Idiom | | Prosody |
| 3 | Annals | | Drama | | Idyl | | Psalm |
| | Anthology | | Eclogue | | Monologue | | Rhyme |
| | Aphorism | | Epigram | | Oration | | Tragedy |
| | | | Epilogue Epilogue | | Panegyric | | Tragicomed |
| | Apophthegm | | | | | | Translation |
| | Autobiography | | Epitaph | | Parody | | |
| | Biography | | Farce | | Philipic | | Versification |
| 9 | Charade | 18 | Glossary | 21 | Poem | 30 | Verse |
| | | | PHYSIC A | ND | SURGERY. | | |
| 37 | Anodyne | 53 | Expectorants | 69 | Laudanum | 85 | Pleurisy |
| | Antidote | 54 | Extensor | | Lethargy | | Quincy |
| | Artery | | Fever | | Ligament | | Recipe |
| | Asthma | | Flexor | 72 | Luxation | | Rheumatism |
| | Calomel | | Gangrene | | Measles | | Scrofula |
| | Catarrh | 58 | Glottis | | Medicament | | Spasm |
| | Caustic | | Gout | | Metacarpus | | Systole |
| | Clavicle | | Hemorrhage | | Narcotic | | Tertian |
| | | | | | Nerves | | Thorax |
| | Diaphragm | | Hydrocephalus | | | | |
| | Diastole | | Hydrophobia | | Occiput | | Tonics |
| 40 | Dispensary | | Influenza | | Opiate | | Tumor |
| | Dropsy | | Ipecacuanha | | Opium | | Ulcer |
| | Dyspepsy | | Jaundice | | Panacea | | Vaccination |
| | Emetic | | King's evil | 82 | Paregoric | | Varioloid |
| | Dpilepsy | | Lacteal | 83 | Plethora | 99 | Vein |
| 52 | Erysipelas | 68 | Larynx | | | | |
| | | | LAW | TE | RMS. | | |
| 1 | Affidavit | 15 | Deposition | 29 | Inquest | 43 | Probate |
| | Appeal | | Distraint | | Insolvency | | Quit claim |
| 3 | Arbitration | | Duress - | | Judiciary | | Replevin |
| | Arrest | | Endorsement | | Larceny | 46 | Simony |
| | Arson | | Execution | 33 | Lawsuit | | Summons |
| | Bribery | | Felony | | Lease | | Tenure |
| 7 | Burglary | | Forgery | | Legacy | | Trespass |
| 8 | Chancery | 22 | Freehold | 36 | Libel | 50 | Tribunal |
| | Charter | | Guaranty | | Litigation | | Usury |
| | Citation | | Hereditament | 38 | Matricide | | Verdict |
| | Codicil | | Homicide | | Misnomer | | Waif |
| | | | | | | | Warrant |
| | Common law | 20 | Impeachment | | Mortgage | | |
| | Debit | | Indenture | | Oath | 99 | Warranty |
| 14 | Default | 20 | Indictment | 42 | Panel | | |
| | | | PO | LITI | | | |
| | Aristocracy | | Diplomacy | 73 | Exports | | Negotiation |
| | Bulletin | | Duties | | Finance | 82 | Oligarchy |
| 58 | Cabinet | 67 | Edict | 75 | Franchise | | Republic |
| | Commonwealth | 68 | Embargo | 76 | Imports | | Revenue |
| | Customs | | Embassy | | Incorporation | | Statute |
| | Debenture | | Enactment | | Jurisdiction | | Tariff |
| | Delegation | | Exchequer | | Legislation | | Tax |
| | 7 | 0.004 | The state of the s | | | | |

79 Legislation 80 Monarchy

86 Tariff 87 Tax 88 Treaty

MILITARY TERMS.

| 89 Ambuscade | 2 | Bombardment | 14 Flank | 26 Ordnance |
|---------------|------|-----------------|------------------|---------------|
| 90 Armament | 3 | Breastwork | 15 Flanker | 27 Outworks |
| 91 Armistice | 4 | Broadside | 16 Fort | 28 Palisado |
| 92 Armory | 5 | Camp | 17 Fortification | 29 Parapet |
| 93 Arsenal | 6 | Campaign | 18 Fosse | 30 Rampart |
| 94 Artillery | | Cannon | 19 Furlough | 31 Ration |
| 95 Baggage | 8 | Cannonade | 20 Garrison | 32 Redoubt |
| 96 Barrack | 9 | Capitulation | 21 Incursion | 33 Siege |
| 97 Bastion | . 10 | Cavalry | 22 Infantry | 34 Skirmish |
| 98 Battle | 11 | Circumvallation | 23 Intrenchmen | t 35 Stockade |
| 99 Battlement | 12 | Court-martial | 24 Magazine | 36 Trench |
| 100 Blockade | 13 | Escalade | 25 Mortar | 37 Truce |
| 1 Bomb | | | | |
| | | | | |

BOTANY.

Before mnemonic rules can be applied with advantage to Botany, facts and terms should be understood and committed to memory.

We have good authority for presuming that there are not less than sixty thousand species of plants in the vegetable world; 56,000 having been already discovered and described by Buffon, and other naturalists.

But we are now to know what is meant by species. This is necessary, in order to appreciate the immense labor of botanists in classifying and arranging these plants, and the immensity of the Creator's works in their production.

A species is one kind, similar to which, there are other kinds. Take the rose as an instance. The damask rose is a species—but we have the wild rose, the moss rose, the Burgundy rose, the French rose, and about fifty different kinds in all, each of which embrace many varieties. All these species form the rose family, or genera. A GENERA comprehends one or more species, grouped together on account of some resemblance in situation, proportion and connection of the organs which constitute the plant. Any one species of a genus may be regarded as a type, or example of the others. Genera are formed into orders, and Orders into Classes.

The system of Linnæus may be illustrated by the following comparison:

Individual persons compose Families, Families "Towns, Counties, Counties, States."

12

Individual plants compose Species, Species "Genera, Genera "Orders, Orders "Classes.

When a botanist sees a plant, which he never saw before, and wishes to know its name and use, he proceeds as follows:

1. He takes the unknown flower in his hand, (no unknown plant can be ascertained without the flower) and compares its parts, with the description of each class, until he finds the class to which it belongs.

2. He then goes to the orders of that class, and finds its order in the same way.

3. Next he goes to the genera of that order, and reads their descriptions, until he finds the genus to which it belongs.

4. At last he looks over the species of that genus, until he finds the exact description of his plant.

5. Thus he finds the apple to be Class 12, Order 5, Genus Pyrus, Species Malus.

Thus, as individual persons are the real existences which make up a state, so are individual plants the real existences which make classes; the words town and county, genus and order, being general terms, are used to designate certain circumstances of these men and plants.

We shall here present a list of Latin and Greek numerals, which it is necessary to commit to memory, in order to understand the names given to the classes and orders. It is not in botany alone that a knowledge of these numerals will be useful; many words in our common language are compounded with them, as uniform, from unus, one; forma, form; octagon from octo, eight, &c.

NUMERALS.

| Latin. | | Greek. | Latin. | | Greek. |
|----------|----|----------------|---------------|-----|---------------|
| Unus, | 1 | Monos, single. | Duodecem, | 12 | Dodeka. |
| Bis, | 2 | Dis, twice. | Tredecem, | 13 | Decatreis. |
| Tres, | 3 | Treis. | Quatuordecim, | 14 | Dekatettares. |
| Quatuor, | 4 | Tettares. | Quindecim, | 15 | Dekapente. |
| Quinque, | 5 | Pente. | Sexdecim, | 16 | Dekaex. |
| Sex, | 6 | Hex. | Septemdecim, | 17 | Dekaepta. |
| Septem, | 7 | Hepta. | Octodecim, | 18 | Dekaocto. |
| Octo, | 8 | Octo. | Novemdecim, | 19 | Dekaennea. |
| Novem, | 9 | Ennea. | Viginti, | 50 | Eikosi. |
| Decem, | 10 | Deka. | | any | Polus. |
| Undecem, | 12 | Endeca. | | | |

The Classes are founded upon distinctions observed in the STAMENS. All known plants are divided into twenty-one Classes.

CLASSES.

The first 12 classes are named by prefixing the Greek numerals to andria, which signifies stamen.

| N_0 | . Name. | Characteristic. | General Characteristic. |
|-------|--------------------------|--|-------------------------|
| 1 | Mon-andria, | 1 Stamen. | |
| | Di-andria, | 2 . " | |
| | Tri-andria, | 3 " | |
| | Tetr-andria, | 4 " | |
| | Pent-andria, | 5 " | Number of |
| | Hex-andria, | 6 " | stamens. |
| | Hept-andria, | 7 " 2 " | |
| | Oct-andria, | 8 " 9 " | |
| | Enne-andria, Dec-andria, | 10 " | |
| | | More than 10 stamens, situated on the | |
| 11 | Icos-andria, | calyx. | Number and position |
| | | More than 10 stamens, situated on the | of stamens. |
| 12 | Poly-andria, | receptacle. | |
| 10 | D' 1 | 2 stamens longer or more powerful | |
| 19 | Di-dynamia, | than the other two. | Number and relative |
| 1/ | Tetra-dynamia | 4 stamens longer or more powerful | length of stamens. |
| 7.7 | 1 cua-ay nanna | than the other two. | |
| 15 | Mon-adelphia, | Stamens united by their filaments in | |
| 10 | intoll accorpility | one set. | Stamens united by |
| 16 | Dia-delphia, | Stamens united by their filaments in | the filaments or |
| | 1 | two sets. | anthers. |
| 17 | Syn-genesia, | 5 stamens united by the anthers— flowers compound. | j. |
| 18 | Gyn-andria, | Stamensgrowing out of the pistil. | |
| | | Stamens and pistils on separate corollas | Position of stamens |
| 19 | Mon-œcia, | on the same plants. | relative to the |
| 00 | T): (*) | Stamens and pistils on separate corollas | pistil. |
| 20 | Di-œcia, | on different plants. | |
| 21 | Cryptogamia, | Stamens and pistils invisible. | Mosses, fungi, &c. |
| | | ORDERS | |

ORDERS.

The Orders of the first 12 Classes are founded upon the number of PISTILS, and are named by prefixing the Greek numerals to the word gynia, signifying pistil, viz.:

| 1 Mono-gynia, | 5 Penta-gynia, | 9 Ennea-gynia, |
|----------------|----------------|----------------|
| 2 Di-gynia, | 6 Hexa-gynia, | 10 Deca-gynia, |
| 3 Tri-gynia, | | 11 Poly-gynia. |
| 4 Tetra-gynia, | 8 Octo-gynia, | |

The Orders of the 13th Class are 2, viz.—1st, Gymnospermia, (seeds naked in the calyx;) 2d, Angyospermia, (seeds in a capsule.)

The Orders of the 13th Class are 2, viz.—1st, Siliculosa, (round

pod;) 2d, Siliquosa, (long pod.)

The Orders of the 15th, 16th, 18th, 19th and 20th Classes, are founded on the number of stamens, and are named like the first 12 classes.

The Orders of the 17th Class are 5, viz.—1st, Equalis; 2d, Super-

Aua; 3d, Frustranea; 4th, Necessaria; 5th, Segregata.

The Orders of the 21st Class are 6, viz.—1st, Filices, (ferns;) 2d, Musci, (Mosses;) 3d, Hepatica, (Liverworts;) 4th, Alga, (Sea weeds;) 5th, Lichenes, (Lichens;) 6th, Fungi, (Mushrooms.)

CLASSES, ORDERS, GENERA, SPECIES, AND VARIETIES.

The arrangement and classification of plants according to the Linnæan system, having been explained, we shall proceed to apply mnemonic rules for memorizing the Classes, Orders and Varieties, of plants, which follow.

VARIETIES are not to be recognized by the botanist, so much as the gardener; they do not come within his province, at least the method of procuring them.

But the gardeners of our own country have already been industrious

in this department of their labor.

From a descriptive catalogue of Prince's Linnæan Botanic Garden, Flushing, Long Island, N. Y., we find a statement of the following Varieties cultivated in that garden, which can be memorized in a short time by the aid of the following indicating words:

VARIETIES.

| | | ¥ | TYTOTI | | LID. | | |
|----|---------------|------------------|--------|----|-------------------|---|-----|
| 1 | Apples, | Stout Hour hand, | | 18 | Figs, | Tough DATE, | 11 |
| 2 | Pears, | New MILLER, | 354 | 19 | Pomegranates, | Tabby Doll, | 15 |
| 3 | Cherries, | Modern Tunnel, | 125 | 20 | Strawberries, | Nice Judge, | 66 |
| | Plums, | Rich DOWAGER, | 167 | 21 | Honey suckle, | Noted Roof, | 48 |
| 5 | Peaches, | Long Outfit, | 181 | | Hardy Azalias, | | |
| 6 | Nectarines, | Chief NUN, | 22 | 23 | Chinese Azalias | • | |
| 7 | Apricots, | Curious Type, | | | | Nameless MATE, | 31 |
| 8 | Almonds, | Fine Tune, | 12 | 24 | Roses, A | Carrow Dingle, 1 | 275 |
| 9 | Quinces, | Bold ETHIOPIA, | 19 | 25 | Peonies, | Nullify Deism, | 103 |
| 10 | Mulberries, | Dozing Deer, | 14 | | Tree Peonies. | • | |
| 11 | Walnuts, | | | | $\mathcal{N}e$ | w shaped WREN, | .42 |
| 66 | Chestnuts, | Tidy MEET, | 31 | 27 | | Naked TRASH, | |
| 66 | Filberts, | | | | | Novel Eulogy, | |
| 12 | Medlars, |) | | | Chinese Chrysa: | | |
| | Persimons, | Tiny PEA, | 9 | | | Noble OUTDONE, | 112 |
| | Papaw, | \ | | 30 | Iris, or Fleur de | | |
| | Grapes, | Tame ITALIAN, | 152 | | | Mossy Leaf, | 58 |
| | Currants, | Daring Man, | | 31 | Hemenopolis, or | | |
| | Raspberries, | | | | | Metallic Doll, | 15 |
| | Gooseberries, | | | 32 | Primrose, Polya | | |
| | | tch Wood-Sawyer, | 104 | - | | Mean NAME, | 23 |
| 17 | Blackberries, | | | 33 | | Mimic Mouse, | 30 |
| | Whortleberrie | s, C | | | | , | |
| | Barberries, | Decoratea : | 7.0 | | | | |
| | Cranberries, | TUB, | 19 | | | | |
| | , | | | | | | |

HERBACEOUS PERENNIAL FLOWERING PLANTS.

| 34 | Violets, | Marble Doll, | 15 | 37 | Geraniui | ms, | |
|----|--------------------|---------------|-----|----|----------|-------------------|-----|
| 35 | Varieties embracia | ng the Acan- | | | | Mock DEATH-WATCH, | 116 |
| | thus, and other | | | 38 | Chinese | Mountain Laurels, | |
| | | mall Horizon, | | | | Moving Mouse, | 30 |
| 36 | Medical and culin | ary plants, | | 39 | Dahlias, | Maple Losses, | 500 |
| | Missiono | my Neighbor. | 294 | | | - · | |

THE LANGUAGE OF FLOWERS, AND THEIR SENTIMENTS.

Note.—There is less difficulty in memorising the hard names of the classes and orders, than in remembering the class and order to which each of the plants belong. Even familiarity with the plants does not lessen the difficulty, unless the properties of the classes and orders are equally familiar. The following arrangement of the adjectives will greatly aid one in his botanical inquiries, and make new additions to the exquisite pleasure which is felt, in a walk through a flower garden, where the plants, with whose names he may be familiar, meet his eye, blooming in rich profusion.

It will be observed that there are two adjectives prefixed to the name of each plant—the first denotes the class, and the second the order to which the plant belongs. The plant, with the class, order and sentiment, should all be committed in one sentence. A numerical order will be preserved by calling up the corresponding symbol and not the adjective, that being here used for another purpose.

| boue | ing symbol and not the adjective, | that being here used for another purp | ose. | |
|------|--|---------------------------------------|------|----|
| 1 | Tabby (19) and Long (5) Amaranth, | Immortality. Class 19, O | rder | 5 |
| | many a contract of the contrac | | 13 1 | |
| | | | | 2 |
| | | | 17 1 | 10 |
| | | Fame speaks you great and good. | 12 | 5 |
| 6 | Noted and New Ash, | | 21. | 2 |
| | Tall and Stout Alyssum, | Worth beyond beauty. | 15 | 1 |
| | Long and Stout Bachelor's Button, | Hope in misery. | 5 | 1 |
| 9 | Dozing and Stout Balm, | Sweets of Social Intercourse, | 14 | 1 |
| | Noted and Tame Balm of Gilead, | I am cured. | 21] | 13 |
| 11 | Long and Stout Balsam, | Impatience. | | 1 |
| | Chief and Stout Barberry, | Petulance. | 6 | 1 |
| | Bold and Stout Bay Leaf, | I change but in dying. | | 1 |
| 14 | Nice and Tame Birch, | Gracefulness. | 20 | 13 |
| 15 | Long and Stout Bindweed, | Humility. | 5 | 1 |
| 16 | Long and Stout Blue Bell, | Constancy. | 5 | 1 |
| | Noted and Rich Box, | Stoicism. | 21 | 4 |
| | Decorated and Dozing Broome, | Neatness. | 17 | |
| 19 | Tough and Stout Burdock, | Importunity. | 18 | 1 |
| | Nice and Tame Calla, | Feminine modesty. | | 13 |
| 21 | Tough and New Chamomile, | Energy in adversity. | 18 | |
| | Tall and New Candytuft, | Indifference. | 15 | 1 |
| 23 | Long and Stout Cardinal Flower, | Distinction. | 5 | |
| 24 | Dozing and New Carnation, | Pride. | 10 | 2 |
| 25 | Dozing and Modern Catchfly, | A snare. | 10 | 3 |
| | Nice and Tiny Cedar Tree, | Spiritual strength. | | 12 |
| | Tiny and Stout Cherry Blossom, | Spiritual beauty. | 12 | 1 |
| 28 | Tiny and New China Aster, | Your sentiments meet with a return. | | |
| | Tough and New Chrysanthemum, | | 18 | 2 |
| | Tiny and Tame Cinquefoil, | Love, constant, but hopeless. | 12 | |
| | Tame and Curious Clematis, | Mental excellence. | | 7 |
| 32 | Tame and Long Columbine, | I cannot give thee up. | 13 | 5 |
| | | | | |

MEMORIA CYCLOPEDIA.

| | Nice and Modern Corn, | Riches. | 20 | 3 |
|--------|-------------------------------------|---|----|-----|
| 34 | Long and Stout Cowslip, | Native Grace. | 5 | 1 |
| 35 | Tabby and Modern Coreopsis, | Always cheerful. | 19 | 3 |
| | Long and New Coriander, | Concealed merit. | 5 | 2 |
| | Noted and Dutch Cypress, | Disappointed Hopes. | 21 | 16 |
| 38 | Tabby and New Dahlia, | Elegance and dignity. | 19 | 2 |
| 39 | Tabby and New Daisy, | Beauty and innocence. | 19 | 2 |
| | Tabby and Stout Dandelion, | Coquetry. | 19 | 1 |
| | Tiny and Long Dew Plant, | A serenade. | 12 | 5 |
| 42 | Long and Modern Elder, | Compassion. | 5 | 3 |
| 43 | Tiny and Tame Eglantine, | Poetry. | 12 | 13 |
| 44 | Tabby and New Everlasting, | Always remembered. | 19 | 2 |
| 45 | Dozing and Stout Evergreen, | Poverty and worth. | 10 | 1 |
| 46 | Noted and Dutch Fir, | Time. | 21 | 16 |
| | Stout and Stout Flowering Reed, | Confidence in heaven. | 1 | 1 |
| | Long and Stout Forget-me-not, | True love. | 5 | 1 |
| 49 | Daring and New Foxglove, | I'am ambitious, not for myself, but you | | 2 |
| 50 | Fine and Stout Fuchsia, | Humble love. | 8 | 1 |
| | Long and New Gentian, | Virgin pride. | 5 | 2 |
| 52 | Dutch and Curious Rose Geranium | | 16 | 7 |
| 53 | " . " Scarlet Do. | Thou art changed. | 16 | 7 |
| 54 | " Oak Do. | True friendship. | 16 | 7 |
| 55 | " Lemon Do. | Tranquillity of mind. | 16 | 7 |
| 56 | " "Silver Leaved do | | 16 | 7 |
| | Tall and New Gilly Flower, | | 15 | 2 |
| 58 | Tahbu and New Colden Red | Lasting beauty. | 19 | 2 |
| 50 | Tabby and New Golden Rod, | Encouragement. | 5 | 7 |
| 60 | Long and Stout Grape, | Charity. | 3 | 1 |
| | Modern and New Grass, | Submission. | 12 | 2 5 |
| 69 | Tiny and Long Hawthorn, | Hope. | 20 | 13 |
| | Nice and Tame Hazel, | Reconciliation. | | 1 |
| 64 | Long and Stout Heliotrope, | Devotion. | 5 | |
| | Dutch and Tame Hibiscus, | Beauty is vain. | 16 | |
| | Dutch and Tame Hollyhock, | Ambition. | | 13 |
| | | Fidelity. | 5 | 1 |
| | Noted and Long Hop, | Injustice. | 21 | 5 |
| | Rich and Stout Houstonia, | Quiet Happiness. | 4 | 1 |
| 09 | Dozing and New Hydrangea, | Heartlessness. | 10 | 2 |
| 171 | Tiny and Long Ice Plant, | Your looks freeze me. | 12 | 5 |
| 71 | Modern and Stout Iris, | A message. | 3 | 1 |
| 12 | Long and Stout Ivy, | I have found one true heart. | 5 | 1 |
| | New and Stout Jasmine, | Amiability. | 2 | 1 |
| 74 | Dutch and Stout Jonquil, | Affection returned. | 16 | 1 |
| #G | Modern and Tame King Cup, | I wish I was rich. | 3 | 13 |
| 19/19/ | Decorated and Rich Laburnum, | Pensive Beauty. | 17 | 4 |
| | Nice and New Lady's Slipper, | Capricious Beauty. | 20 | 2 |
| | Tame and Modern Larkspur, | Inconstancy. | 13 | 3 |
| | Dozing and Stout Laurel, | Virtue is true beauty. | 10 | 1 |
| | Daring and Stout Lavender, | Acknowledgement. | 14 | 1 |
| | Tame and Stout Lemon, | Discretion. | 13 | 1 |
| | Tough and Stout Lettuce, | Cold-hearted. | 18 | 1 |
| | New and Stout Lilac, | First Emotion of Love. | 2 | 1 |
| | Chief and Stout Lily—white, | Purity. | 6 | 1 |
| | Chief and Stout Lily of the Valley, | | 6 | 1 |
| | Decorated and Dozing Locust, | Affection beyond the grave. | 17 | 10 |
| 01 | Decorated and Rich Lupine, | Dejection, Sorrow. | 17 | 4 |
| | | | | |

BOTANY. 95

| 20 | Doring and Madam London Puido | Thirality | 10 9 |
|-------------|--|-------------------------------------|--|
| | Dozing and Modern London Pride, Dutch and Tame Mallows, | Sweet disposition. | 10 3 16 13 |
| | Fine and Stout Maple, | Reserve. | 8 1 |
| | FFF 707 7 700 A 70 M A 7 7 7 7 | Contempt. | 19 4 |
| 92 | Tidy and Modern Mignonette, | Moral and intellectual beauty. | 11 3 |
| .03 | Dutch and Dozing Mimosa, | Sensitiveness. | 16 10 |
| | Known and New Moss, | Maternal Love. | 22 2 |
| | Tiny and Stout Myrtle, | Love in absence. | 12 1 |
| | Fine and Stout Nasturtion, | Patriotism. | 8 1 |
| | | Dark thoughts. | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 98 | | Hospitality. | 21 13 |
| | Long and New Oleander, | Beware! | 5 2 |
| | Tiny Orange Flowers, | Woman's Worth. | 12 12 |
| | Long and Stout Pansy, | Tender and pleasant thoughts. | 5 1 |
| 102 | | Religious Fervor. | 16 2 |
| | Decorated & Rich Pea—everlasting, | | 17 4 |
| 104 | Dedorated & Rich Sweet Pea, | Departure. | 17 4 |
| | Tiny and Stout Peach Blossom, | I am your captive. | 12 1 |
| | Long and Stout Petunia, | Thou art less proud than they deem. | 5 1 |
| | Tame and Modern Peony, | Ostentation. | 13 3 |
| | Long and Stout Phlox, | Our souls are united. | 5 1 |
| 109 | Noted and Dutch Pine, | Time and faith. | 21 16 |
| | Dozing and New Pink—white, | Lovely and pure affection. | 10 2 |
| 111 | Dozing and New Pink-red, | Woman's Love. | 10 2 |
| 112 | Long and Stout Polyanthus, | Confidence. | 5 1 |
| 113 | Long and Stout Potato, | Beneficence. | 5 1 |
| 114 | Tame and Stout Poppy, | Forgetfulness. | 13 1 |
| | Long and Stout Primrose, | Modest worth. | 5 1 |
| 1 16 | Fine and Stout Primrose—evening | | 8 1 |
| 117 | Tiny and Tame Rose Bud, | Confession of love. | 12 13 |
| 118 | | Happy Love. | 12 13 |
| 119 | | Simplicity and beauty. | 12 13 |
| 120 | " — Damask, | Bashful love. | 12 13 |
| 121 | " —Moss, | Superior merit. | 12 13 |
| 122 | " "—Multiflora, | Grace. | 12 13 |
| 123 | " | Too young to love. | 12 13 |
| 124 | " —RedLeaved | dDiffidence. | 12 13 |
| | New and Stout Sage, | Domestic virtues. | 2 1 |
| | Daring and New Snapdragon, | | 14 2 |
| | Long and Modern Snow Ball, | Thoughts of Heaven. | 5 3 |
| | Chief and Stout Snowdrop, | I am not a summer friend. | 6 1 |
| 129 | | Let us follow Jesus. | 6 1 |
| 130 | | Perfect excellence. | 12 13 |
| | Long and Modern Sumach, | | 5 3 |
| | Tabby and Modern Sun Flower, | Smile on me still. | 19 3 |
| | Dozing and New Sweet William, | Gallantry. | 10 2 |
| | Tiny and Stout Syringa—Carolina | | 12 1 |
| | Tabby and Stout Thistle, | Never forget. | 19 1 |
| | Chief and Stout Tulip, | Beautiful eyes. | 6 1 |
| | Daring and Stout Verbena, | Sensibility. | 14 1 |
| | Long and Stout Violet, | Faithfulness. | $\begin{array}{ccc} 5 & 1 \\ 3 & 2 \end{array}$ |
| | Modern and New Vernal Grass, | Poor but happy. | 14 2 |
| | Daring and New Wallflower, | Fidelity in misfortune. | 13 1 |
| | Tame and Stout Water Lily; | Eloquence. | 21 2 |
| 14% | Noted and New Willow, | Forsaken. | MI A |

| 143 Rich and New Witch Hazel, | A spell. | 4 2 |
|-------------------------------|----------------------------|-------|
| 144 Long and New Woodbine, | Fraternal love. | 5 1 |
| 145 Tabby and Tidy Yarrow, | A cure for the heart ache. | 19 11 |
| 146 Tabby and New Zinnia, | I mourn your absence. | 19 2 |

DECIDUOUS ORNAMENTAL TREES.

| 1 | Maple, | 18 | Ash, | 33 | Poplar, |
|----|--------------------|----|-------------------------|----|------------------------|
| | Sycamore, | 19 | Acacia, | 34 | Plum, |
| | Horse-Chestnut, | | Snowdrop, | 35 | Apple, |
| 4 | Ailantus, Chinese, | 21 | Kentucky Coffee, | | Pear, |
| 5 | Alder, | | Kolreuteria, | 37 | Mountain-Ash, |
| 6 | Almond, | 23 | Larch, | 38 | Service-Tree, or Sorb, |
| 7 | Peach, | 24 | Tulip-Tree, | 39 | Oak, |
| 8 | Angelica, | 25 | Osage-Orange, | 40 | Purple Fringe, |
| 9 | Birch, | 26 | Magnolia, | 41 | Yellow-Locust, or |
| 10 | Catalpa, | 27 | Pride of India, or Bead | | Acacia, |
| 11 | Cherry, | | Tree, | 42 | Japan Ginkgo, |
| 12 | Bird-Cherry, | 28 | Negundo, | 43 | Willow, |
| 13 | Judas-Tree, | 29 | Imperial Pawlonia, | 44 | Japan Sophora, |
| 14 | Whitefringe-Tree, | 30 | Pistachia Nut, | 45 | American-Cypress, |
| 15 | Laburnum, | 31 | Plane-Tree, | 46 | Linden, |
| 16 | Lotus, | 32 | Abele, | 47 | Elm, |
| 17 | Beech. | | | | |

DECIDUOUS ORNAMENTAL SHRUBS.

| | 1 Sensitive or Silk Tree | 94 | Cytique | 17 | Mylocarium, |
|---|--------------------------|-----|-----------------------|----|-------------------|
| | 2 Horse Chestnut, | | | | Nandina, |
| | | | Scotch Broom, | | |
| | Amelanche, | | Mezereum, | | Syringa, |
| | Indigo Shrub, | | Daphne, | | Georgia Bark, |
| | 5 Almond, | 28 | Deutzia, | | Nepal Piptanthus, |
| | 6 Andromeda, | 29 | Eleagnus, | 52 | Pomegranate, |
| 1 | 7 Aralia, | | Strawberry Tree, | | Cinquefoil, |
| | 8 Groundsel Tree, | | Syrian Fontanesia, | | Rhodora, |
| | 9 Barberry, | | Dyer's Broom, | | Currant, |
| | 0 Callicarpa, | | Franklinia, | | Gooseberry, |
| | 1 Calycanthus, | | Helianthemum, | | Acacia, |
| 1 | 2 Caragana, | | Althea Frutex, | | Raspberry, |
| 1 | 3 Japan Alspice, | 36 | Hippophæ, | 59 | Osier, |
| | 4 Globe Flower, | | Hydrangea, | | Shepherdia, |
| 1 | 5 Clethra, | | St. Johns Wort, | | Broom, |
| | 6 Bladder Senna, | | Deciduous Holly, | | Spiræa, |
| | 7 Corchorus, | | Virginian Itea, | | Stuartia, |
| | 8 Coriaria, | | Jasmine, | | Indian Currant, |
| | 9 Dogwood, | | Kerria, or Corchorus, | | Lilac, |
| | 0 Cherry, | | Globe Flower, | | Tamarisk, |
| | 1 Scorpion Senna, | | Lagerstræmia, | | Snowball, |
| | 2 Hawthorn, | | Leycesteria, | | Cranberry Tree, |
| | 3 Quince, | | Privet, | | Wayfaring Tree, |
| ~ | o dume, | T.U | T 111 Ct, | UJ | waylaring free, |

PROSE, POETRY, RHYME AND FIGURES.

In order to commit prose or poetry, it is first necessary to carefully read it, until we thoroughly understand the piece we wish to memo-We should notice the rhetorical figures, the imagery, the harmony or irregularity of the sentences, and then proceed to memorize, or lay out the work for memorizing. Take the following paragraph as a prose specimen:

"As the vine, which has long twined its graceful foliage round the oak, and been lifted by it into sunshine, will, when the hardy plant is riven by the thunderbolt, cling around it with its caressing tendrils, binding up its shattered boughs, so is it beautifully ordered by Providence, that woman, who is a mere dependant and ornament of man in his happier hours, should be his stay and solace when smitten with sudden calamity, winding herself into the rugged recesses of his nature, tenderly supporting the drooping head, and binding up the broken heart."-IRVING.

ANALIZED.

1. As the vine, which has long twined its graceful foliage round the oak,

2. and been lifted by it into sunshine.

3. will,

4. when the hardy plant is riven by the thunderbolt,

3. cling around it with its caressing tendrils,

6. binding up the shattered boughs,

7. so is it beautifully ordained by Providence that woman,8. who is the mere dependant and ornament of man in his happier hours, 9. should be his stay and solace when smitten with sudden calamity,

10. winding herself into the rugged recesses of his nature,

11. tenderly supporting the drooping head,

12. and binding up the broken heart.

Twelve Places and Symbols are to be used in establishing a relation with the twelve parts into which the paragraph is divided. This will be done by an ingenious tact, which the mind acquires by trying by locating each part in the Place, with its appropriate symbol. For example, I can locate the first line in the first Place, by placing it with the Stout (oak) Gig, and so with every other line—then the name of the symbol will call up the line with which it stands related.

Should any one wish to commit a chapter in the Bible, or the "Declaration of Independence," let this plan be pursued, and not unfre-

quently, three-fourths of time and labor will be saved by it.

The same plan should be pursued with poetry and rhyme. the following beautiful lines for an example.

THE BEAUTIES OF NATURE.

1. "O! how canst thou renounce the boundless store of bliss, 2. That nature to her votary yields; the warbling woodlands,

3. The resounding shore, the pomp of groves, the garniture of fields;

4. All that the genial ray of morning gilds, 5. And all that echoes to the breath of even;

6. All that the mountain's sheltering bosom shields,

7. And all the dread magnificence of heaven,

8. O how canst thou renounce and hope to be forgiven."

Rhyming has long been employed as a means of aiding the memory. The vividness of impression is derived from the similarity of sound, with which each line ends. Example,

"Thirty days hath September, April, June, and November, February hath twenty-eight alone, And all the rest have thirty one, Except in leap year, then in fine, February's days are twenty-nine.

The following grammatical couplets should be committed by every child into whose hand this book may fall:

- 1. Three little words we often see, Are Articles, A, an, and the.
- 2. A Noun's the name of any thing, As school or garden, hoop or swing.
- 3. Adjectives tell the kind of noun, As great, small, pretty, white or brown.
- 4. Instead of nouns the Pronouns stand, John's head, his face, my arm, your hand.
- 5. Verbs tell of something being done, To read, write, count, sing, jump, or run.
- 6. How things are done the Adverbs tell, As slowly, quickly, ill, or well.
- 7. Conjunctions join the words together, As men and women, wind or weather.
- 8. The Preposition stands before A noun—as in, or through a door.
- 9. The Interjection shows surprise, As oh! how pretty! ah! how wise!

 The whole are called nine Parts of Speech, Which reading, writing, speaking, teach.

THE MEMORY OF FIGURES.

The memorizing of isolated, or great sums of figures, should be regarded as an intellectual amusement, rather than as serving a very useful purpose. Those lecturers, who have displayed upon a black-board the "ratio of the diameter to the circumference of the circumference of the circumference," as a demonstration of the adaptation of mnemonic rules to mathematics, have only aimed to arouse our marvellousness, raise hopes for disappointment, and take the people's money on false pretences. As soon as any one learns the figure alphabet, or numerical key, words can be substituted for figures, and made into sentences, and in a way that will not only enable one to replace a long list of figures, when they

have been removed from the black-board, but tell the numerical order of each figure, calling it by name. Any piece of prose or poetry, which may have been committed, can be converted into figures the hundredth time, and thereby make an apparent show of a great memory of figures, and "adaptation to mathematics," as well as in the ratio of the diameter. How far mnemonic rules can be made to aid in retaining propositions in some of the higher branches of mathematics, we will not pretend to determine, and while we would not have unprincipled lecturers bring mnemonic rules into disrepute, we would not object to it as a mere exercise.

The following Ratio of the Diameter, should be converted into letters and words, and placed in as many series as there are tens of figures; having only nine figures in the 1st series, each succeeding series will begin with the 10, 20, 30, and so on, so that if the series can be remembered, each figure in the series can be determined by decomposing the sentence, and translating it into figures. Any one who will take the trouble to make indicating sentences to fit the 15 series, can not only remember all the following figures, but answer correctly when the figure, standing against any of the following numbers, is called for.

As 3 is to 9, or as 7 is to 21, so is the diameter to the circumference of the circle—but there is an allowance to be made, as the mechanics say, because of the impossibility of making a perfect circle, so that they oftener say 3 times 7 are 22 than otherwise. The following figures are the fractional parts of an inch, foot, or yard, as the case may be:

S 140 141

Examples.—My dear tall Benny is in jail!—3.14159265.
My love, I beg, bemoan the move—3589793238.

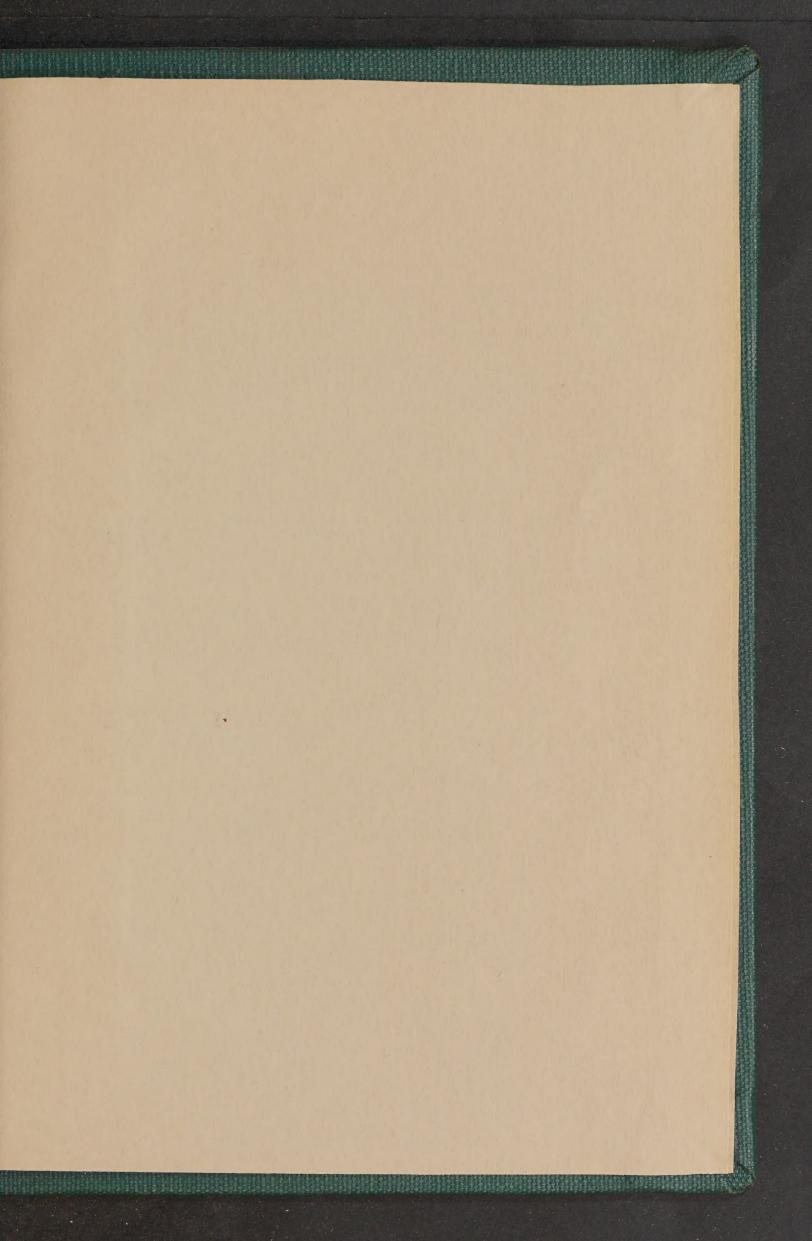
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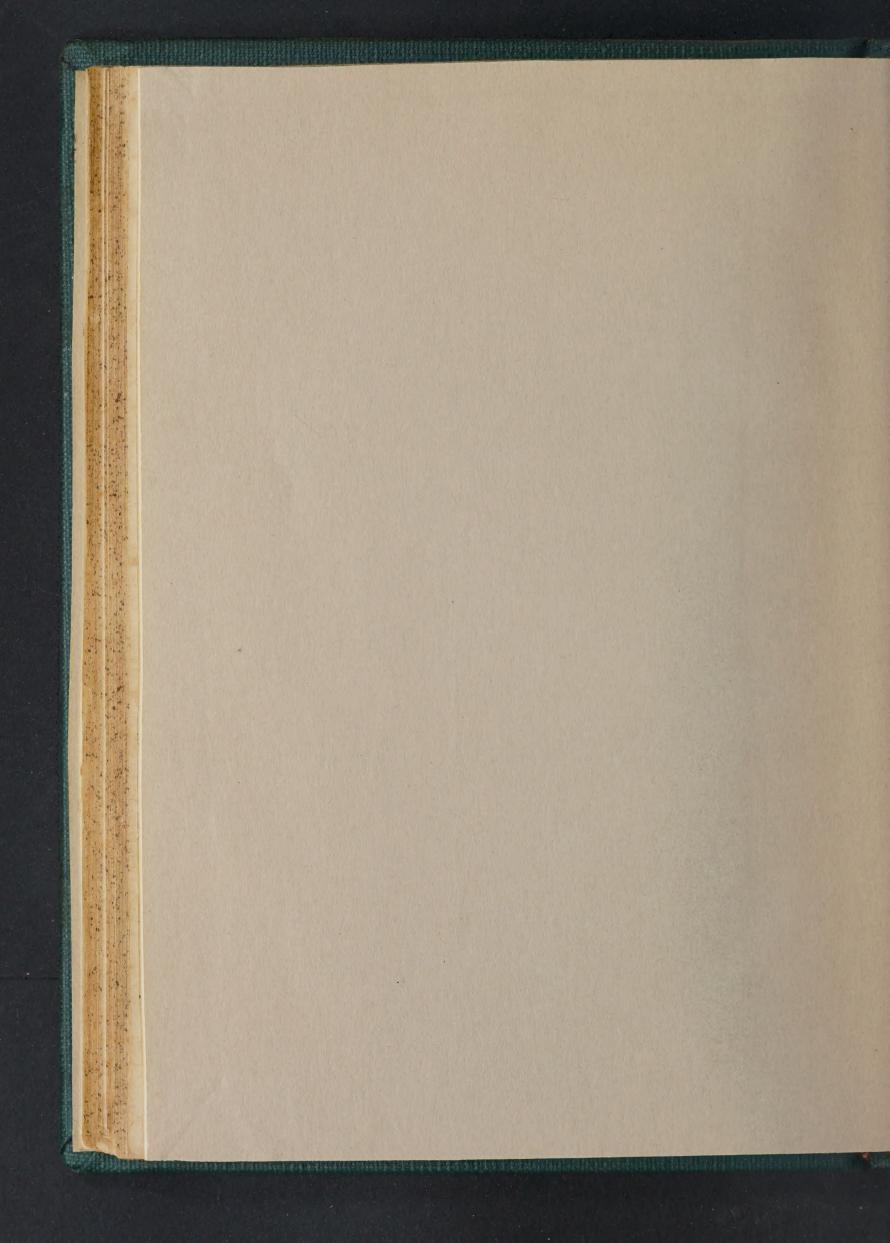
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| • | |

ERRATA.—The "Nineteenth Grand Division of Time," on the 36th page, should have been placed on the 33d page, next after No. 90—" Edict of Nantes."









140 months

